

SPECTRUM MATHEMATICS SERIES

Orange Book



ME:

SPECTRUM MATHEMATICS — Orange Book

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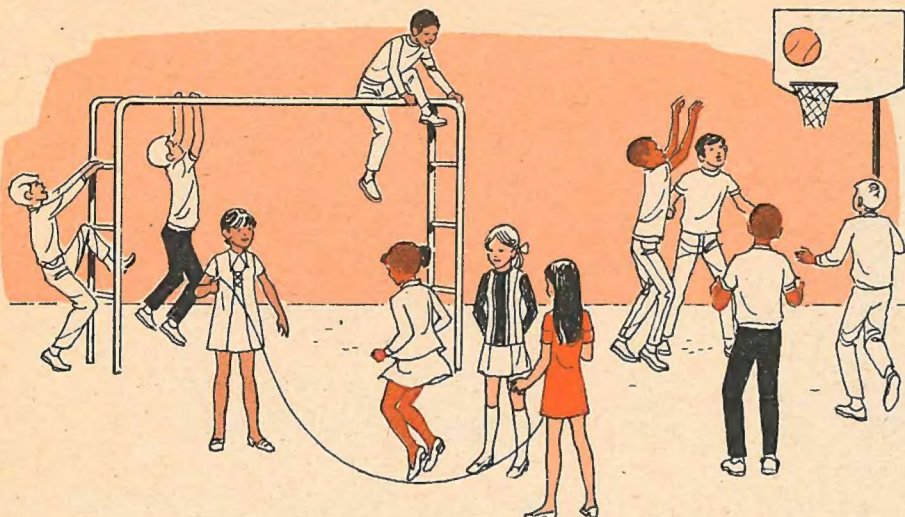
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Problems



There are _____ girls
at the playground.

There are _____ boys
at the playground.

There are _____ children
at the playground.

Solve each problem.

1. How many children are playing basketball or playing on the monkey bar?

_____ children are playing basketball.

_____ children are playing on the monkey bar.

_____ children are playing basketball or on the monkey bar.

2. Manny made 4 baskets. Jake made 5 baskets. How many baskets did the two boys make?

Manny made _____ baskets.

Jake made _____ baskets.

The two boys made _____ baskets.

3. Lisa lives 2 blocks west of the playground. Joan lives 3 blocks west of Lisa. How far does Joan live from the playground?

Lisa lives _____ blocks west of the playground.

Joan lives _____ blocks west of Lisa.

Joan lives _____ blocks from the playground.

1.

2.

3.

Check your answers. Record your score.

Perfect score: 9

My score: _____

Addition

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

4 → Find the 4 at the left.
 +5 → Find the 5 at the top.
 9 ← The sum is recorded where the 4-row and 5-column meet.

7 → Find the _____ at the left.

+8 → Find the _____ at the top.
 15 ← The sum is recorded where

the _____-row and _____-column meet.

Add.

- | | | | | | | | | |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> | <i>f</i> | <i>g</i> | <i>h</i> |
| 1. | 5
+3
— | 2
+5
— | 5
+4
— | 6
+3
— | 3
+4
— | 3
+5
— | 2
+7
— | 3
+7
— |
| 2. | 6
+2
— | 3
+6
— | 3
+2
— | 2
+4
— | 4
+3
— | 2
+6
— | 7
+2
— | 4
+4
— |
| 3. | 2
+3
— | 0
+7
— | 3
+1
— | 9
+0
— | 1
+8
— | 0
+5
— | 4
+2
— | 6
+1
— |
| 4. | 7
+9
— | 6
+7
— | 9
+4
— | 8
+3
— | 4
+9
— | 7
+3
— | 8
+5
— | 8
+9
— |
| 5. | 7
+7
— | 9
+5
— | 4
+7
— | 6
+5
— | 2
+8
— | 7
+5
— | 4
+8
— | 7
+6
— |
| 6. | 9
+6
— | 5
+8
— | 5
+9
— | 6
+6
— | 9
+8
— | 7
+4
— | 3
+9
— | 2
+9
— |
| 7. | 4
+6
— | 1
+9
— | 5
+7
— | 9
+3
— | 3
+8
— | 8
+4
— | 9
+7
— | 9
+9
— |

Check your answers. Record your score.

Perfect score: 56

My score: _____

Subtraction

NAME _____

—	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

$\begin{array}{r} 9 \\ -6 \\ \hline 3 \end{array}$
 Find the 9 which is below the 6 at the top.
 The difference is recorded in the **3** at the left of this row.

$\begin{array}{r} 12 \\ -4 \\ \hline 8 \end{array}$
 Find the _____ which is below the _____ at the top.
 The difference is recorded in the **8** at the left of this row.

Subtract.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>
1.	$\begin{array}{r} 7 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -0 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -1 \\ \hline \end{array}$
2.	$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$
3.	$\begin{array}{r} 13 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -9 \\ \hline \end{array}$
4.	$\begin{array}{r} 15 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -8 \\ \hline \end{array}$
5.	$\begin{array}{r} 16 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -6 \\ \hline \end{array}$
6.	$\begin{array}{r} 14 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -4 \\ \hline \end{array}$
7.	$\begin{array}{r} 13 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -5 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 56 My score: _____

PRE-TEST—Addition and Subtraction

Add.

- | | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> | <i>f</i> |
|----|--|--|--|--|--|--|
| 1. | $\begin{array}{r} 45 \\ +4 \\ \hline \end{array}$ | $\begin{array}{r} 73 \\ +5 \\ \hline \end{array}$ | $\begin{array}{r} 64 \\ +5 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ +7 \\ \hline \end{array}$ | $\begin{array}{r} 42 \\ +5 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ +4 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 4 \\ +43 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ +54 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ +43 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ +34 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ +24 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ +46 \\ \hline \end{array}$ |
| 3. | $\begin{array}{r} 70 \\ +10 \\ \hline \end{array}$ | $\begin{array}{r} 60 \\ +20 \\ \hline \end{array}$ | $\begin{array}{r} 40 \\ +50 \\ \hline \end{array}$ | $\begin{array}{r} 40 \\ +30 \\ \hline \end{array}$ | $\begin{array}{r} 70 \\ +20 \\ \hline \end{array}$ | $\begin{array}{r} 30 \\ +40 \\ \hline \end{array}$ |
| 4. | $\begin{array}{r} 54 \\ +21 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ +41 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ +16 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ +23 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ +21 \\ \hline \end{array}$ | $\begin{array}{r} 53 \\ +32 \\ \hline \end{array}$ |
| 5. | $\begin{array}{r} 68 \\ +30 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ +25 \\ \hline \end{array}$ | $\begin{array}{r} 34 \\ +30 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ +80 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ +71 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ +40 \\ \hline \end{array}$ |

Subtract.

- | | | | | | | |
|----|--|--|--|--|--|--|
| 6. | $\begin{array}{r} 28 \\ -7 \\ \hline \end{array}$ | $\begin{array}{r} 57 \\ -6 \\ \hline \end{array}$ | $\begin{array}{r} 46 \\ -4 \\ \hline \end{array}$ | $\begin{array}{r} 29 \\ -8 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ -5 \\ \hline \end{array}$ | $\begin{array}{r} 78 \\ -6 \\ \hline \end{array}$ |
| 7. | $\begin{array}{r} 50 \\ -10 \\ \hline \end{array}$ | $\begin{array}{r} 40 \\ -20 \\ \hline \end{array}$ | $\begin{array}{r} 60 \\ -40 \\ \hline \end{array}$ | $\begin{array}{r} 70 \\ -30 \\ \hline \end{array}$ | $\begin{array}{r} 90 \\ -60 \\ \hline \end{array}$ | $\begin{array}{r} 80 \\ -30 \\ \hline \end{array}$ |
| 8. | $\begin{array}{r} 89 \\ -46 \\ \hline \end{array}$ | $\begin{array}{r} 97 \\ -94 \\ \hline \end{array}$ | $\begin{array}{r} 89 \\ -55 \\ \hline \end{array}$ | $\begin{array}{r} 78 \\ -23 \\ \hline \end{array}$ | $\begin{array}{r} 98 \\ -48 \\ \hline \end{array}$ | $\begin{array}{r} 67 \\ -23 \\ \hline \end{array}$ |
| 9. | $\begin{array}{r} 78 \\ -70 \\ \hline \end{array}$ | $\begin{array}{r} 98 \\ -32 \\ \hline \end{array}$ | $\begin{array}{r} 99 \\ -21 \\ \hline \end{array}$ | $\begin{array}{r} 67 \\ -61 \\ \hline \end{array}$ | $\begin{array}{r} 89 \\ -10 \\ \hline \end{array}$ | $\begin{array}{r} 66 \\ -51 \\ \hline \end{array}$ |

Check your answers. Record your score.

Perfect score: 54

My score: _____

NAME _____

Addition and Subtraction

$$\begin{array}{r} 36 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ +2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 36 \\ +2 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 36 \\ +2 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 57 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ -4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 57 \\ -4 \\ \hline 53 \end{array}$$

$$\begin{array}{r} 57 \\ -4 \\ \hline 53 \end{array}$$

$6 + 2 = \underline{\hspace{2cm}}$

$36 + 2 = \underline{\hspace{2cm}}$

$7 - 4 = \underline{\hspace{2cm}}$

$57 - 4 = \underline{\hspace{2cm}}$

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 20 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ +4 \\ \hline \end{array}$

2.	$\begin{array}{r} 22 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ +3 \\ \hline \end{array}$
----	---	---	---	---	---	---

3.	$\begin{array}{r} 3 \\ +66 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +16 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +17 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +28 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +30 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +32 \\ \hline \end{array}$
----	---	---	---	---	---	---

4.	$\begin{array}{r} 7 \\ +41 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +61 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +35 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +41 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +40 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +71 \\ \hline \end{array}$
----	---	---	---	---	---	---

Subtract.

5.	$\begin{array}{r} 19 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ -5 \\ \hline \end{array}$
----	---	---	---	---	---	---

6.	$\begin{array}{r} 97 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 69 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ -9 \\ \hline \end{array}$
----	---	---	---	---	---	---

7.	$\begin{array}{r} 89 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 77 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 89 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ -2 \\ \hline \end{array}$
----	---	---	---	---	---	---

8.	$\begin{array}{r} 79 \\ -1 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 86 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -3 \\ \hline \end{array}$
----	---	---	---	---	---	---

Check your answers. Record your score.

Perfect score: 48

My score: _____

Problems

Solve each problem.

1. Raymond has 27 baseball cards. His friend Louis has 6 baseball cards. How many more baseball cards does Raymond have than Louis?

Raymond has _____ baseball cards.

Louis has _____ baseball cards.

Raymond has _____ more baseball cards.

2. The Cubs got 8 hits in the first game and 11 hits in the second game. How many hits did they get in both games?

They got _____ hits in the first game.

They got _____ hits in the second game.

They got _____ hits in both games.

3. In Miss Holt's class, there are 23 pupils present and 5 pupils absent. How many pupils are in Miss Holt's class?

There are _____ pupils present.

There are _____ pupils absent.

There are _____ pupils in Miss Holt's class.

4. Melody has 12 crayons and Teresa has 6 crayons. How many crayons do both girls have?

Melody has _____ crayons.

Teresa has _____ crayons.

Together they have _____ crayons.

5. In Melvin's apartment house, there are 19 girls and 7 boys. How many more girls than boys live in that apartment house?

There are _____ more girls than boys.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 13

My score: _____

Addition

$$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array} \quad \begin{array}{r} 60 \\ +20 \\ \hline 80 \end{array} \quad \begin{array}{r} 5 \\ +4 \\ \hline 9 \end{array} \quad \begin{array}{r} 50 \\ +40 \\ \hline 90 \end{array}$$

If $6+2=8$, then $60+20=$ 80.If $5+4=9$, then $50+40=$ _____.

$$\begin{array}{r} 36 \\ +21 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ +21 \\ \hline 7 \end{array} \quad \begin{array}{r} 36 \\ +21 \\ \hline 57 \end{array} \quad \begin{array}{r} 36 \\ +21 \\ \hline 57 \end{array}$$

 $6+1=$ _____ $30+20=$ _____ $36+21=$ _____

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 5 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ +10 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ +30 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ +20 \\ \hline \end{array}$
2.	$\begin{array}{r} 3 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ +60 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ +20 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ +80 \\ \hline \end{array}$
3.	$\begin{array}{r} 60 \\ +30 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ +40 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ +10 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ +60 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ +30 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ +20 \\ \hline \end{array}$
4.	$\begin{array}{r} 17 \\ +41 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ +61 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ +35 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ +41 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ +40 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ +71 \\ \hline \end{array}$
5.	$\begin{array}{r} 22 \\ +14 \\ \hline \end{array}$	$\begin{array}{r} 33 \\ +64 \\ \hline \end{array}$	$\begin{array}{r} 44 \\ +33 \\ \hline \end{array}$	$\begin{array}{r} 85 \\ +13 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ +24 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ +13 \\ \hline \end{array}$
6.	$\begin{array}{r} 21 \\ +73 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ +62 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ +72 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ +82 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ +43 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ +42 \\ \hline \end{array}$
7.	$\begin{array}{r} 63 \\ +36 \\ \hline \end{array}$	$\begin{array}{r} 58 \\ +31 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ +24 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ +42 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ +13 \\ \hline \end{array}$	$\begin{array}{r} 35 \\ +63 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems

Solve each problem.

1. There are 14 boys in Miss Evans' room. There are 15 girls in the room. How many pupils are in her room?

There are _____ boys.

There are _____ girls.

There are _____ pupils in Miss Evans' room.

2. Sally's father worked 42 hours last week. This week he worked 46 hours. How many hours did he work during those two weeks?

He worked _____ hours last week.

He worked _____ hours this week.

He worked _____ hours during those two weeks.

3. Joan's family has two dogs. One weighs 31 pounds. The other weighs 28 pounds. What is the combined weight of the dogs?

One dog weighs _____ pounds.

The other dog weighs _____ pounds.

Their combined weight is _____ pounds.

4. Milton had 43 baseball cards. His cousin gave him 25 more. How many baseball cards did he have then?

Milton had _____ baseball cards.

His cousin gave him _____ baseball cards.

Then he had _____ baseball cards.

5. Mr. Cook was 25 years old when Mary was born. How old will he be when Mary has her thirteenth birthday?

Mr. Cook will be _____ years old.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 13

My score: _____

NAME _____

Subtraction

$$\begin{array}{r} 5 \\ -3 \\ \hline 2 \end{array} \quad \begin{array}{r} 50 \\ -30 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 8 \\ -2 \\ \hline 6 \end{array} \quad \begin{array}{r} 80 \\ -20 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 67 \\ -53 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ -53 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 67 \\ -53 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 67 \\ -53 \\ \hline 14 \end{array}$$

If $5 - 3 = 2$, then $50 - 30 = \underline{20}$. $7 - 3 = \underline{\quad}$ If $8 - 2 = 6$, then $80 - 20 = \underline{\quad}$. $60 - 50 = \underline{\quad}$ $67 - 53 = \underline{\quad}$

Subtract.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ -20 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ -40 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ -60 \\ \hline \end{array}$

2.	$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 80 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ -50 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ -20 \\ \hline \end{array}$
----	--	--	--	--	--	--

3.	$\begin{array}{r} 40 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ -70 \\ \hline \end{array}$	$\begin{array}{r} 80 \\ -40 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ -20 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ -40 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ -10 \\ \hline \end{array}$
----	--	--	--	--	--	--

4.	$\begin{array}{r} 98 \\ -87 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -66 \\ \hline \end{array}$	$\begin{array}{r} 89 \\ -61 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ -53 \\ \hline \end{array}$
----	--	--	--	--	--	--

5.	$\begin{array}{r} 69 \\ -40 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 69 \\ -37 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ -22 \\ \hline \end{array}$	$\begin{array}{r} 87 \\ -83 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ -60 \\ \hline \end{array}$
----	--	--	--	--	--	--

6.	$\begin{array}{r} 53 \\ -51 \\ \hline \end{array}$	$\begin{array}{r} 94 \\ -51 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -44 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ -43 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ -12 \\ \hline \end{array}$	$\begin{array}{r} 66 \\ -20 \\ \hline \end{array}$
----	--	--	--	--	--	--

7.	$\begin{array}{r} 86 \\ -21 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ -31 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -12 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ -22 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -50 \\ \hline \end{array}$
----	--	--	--	--	--	--

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems

Solve each problem.

1. Mary read 38 pages yesterday. She read 21 pages today. How many more pages did she read yesterday than today?

Mary read _____ pages yesterday.

She read _____ pages today.

She read _____ more pages yesterday.

2. Catherine weighs 69 pounds. Her sister weighs 53 pounds. How much more does Catherine weigh?

Catherine weighs _____ pounds.

Her sister weighs _____ pounds.

Catherine weighs _____ more pounds.

3. Mr. Jones is 38 years old. His wife is 32. How much older is Mr. Jones than his wife?

Mr. Jones is _____ years old.

His wife is _____ years old.

Mr. Jones is _____ years older.

4. Walter can kick a football 28 yards. He can throw it 21 yards. How much farther can he kick the football?

He can kick the football _____ yards.

He can throw the football _____ yards.

He can kick the football _____ yards farther.

5. Silver Lake is 24 miles west of Wautoma. Mt. Morris is 37 miles west of Wautoma. How far is it from Silver Lake to Mt. Morris?

It is _____ miles from
Silver Lake to Mt. Morris.

Check your answers. Record your score.

Perfect score: 13

My score: _____

TEST—Addition and Subtraction

Add.

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1. $\begin{array}{r} 20 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 52 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ +6 \\ \hline \end{array}$

2. $\begin{array}{r} 5 \\ +31 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +81 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ +31 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ +94 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +31 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +51 \\ \hline \end{array}$
--	---	---	---	---	---

3. $\begin{array}{r} 40 \\ +20 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ +60 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ +60 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ +20 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ +20 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ +30 \\ \hline \end{array}$
---	--	--	--	--	--

4. $\begin{array}{r} 35 \\ +60 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ +22 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ +40 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ +33 \\ \hline \end{array}$	$\begin{array}{r} 41 \\ +55 \\ \hline \end{array}$	$\begin{array}{r} 35 \\ +14 \\ \hline \end{array}$
---	--	--	--	--	--

5. $\begin{array}{r} 62 \\ +34 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ +13 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ +25 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ +23 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ +25 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ +74 \\ \hline \end{array}$
---	--	--	--	--	--

Subtract.

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
6. $\begin{array}{r} 68 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ -1 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -5 \\ \hline \end{array}$

7. $\begin{array}{r} 70 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ -50 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ -40 \\ \hline \end{array}$	$\begin{array}{r} 80 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ -40 \\ \hline \end{array}$
---	--	--	--	--

8. $\begin{array}{r} 88 \\ -78 \\ \hline \end{array}$	$\begin{array}{r} 77 \\ -34 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ -50 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ -41 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ -91 \\ \hline \end{array}$
---	--	--	--	--

9. $\begin{array}{r} 96 \\ -62 \\ \hline \end{array}$	$\begin{array}{r} 88 \\ -23 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -23 \\ \hline \end{array}$	$\begin{array}{r} 99 \\ -78 \\ \hline \end{array}$	$\begin{array}{r} 87 \\ -40 \\ \hline \end{array}$
---	--	--	--	--

Check your answers. Record your score.

Perfect score: 50

My score: _____

PRE-TEST—Addition and Subtraction

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 1 \\ 2 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 4 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 8 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 7 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 7 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 5 \\ +4 \\ \hline \end{array}$
2.	$\begin{array}{r} 28 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 69 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +63 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +47 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +49 \\ \hline \end{array}$
3.	$\begin{array}{r} 67 \\ +25 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ +72 \\ \hline \end{array}$	$\begin{array}{r} 87 \\ +29 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ +215 \\ \hline \end{array}$	$\begin{array}{r} 295 \\ +42 \\ \hline \end{array}$	$\begin{array}{r} 388 \\ +25 \\ \hline \end{array}$
4.	$\begin{array}{r} 52 \\ 24 \\ +37 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ 57 \\ +93 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ 63 \\ +75 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ 52 \\ +48 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ 63 \\ +72 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ 51 \\ +39 \\ \hline \end{array}$

Subtract.

5.	$\begin{array}{r} 26 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 94 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -9 \\ \hline \end{array}$
6.	$\begin{array}{r} 43 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ -47 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -24 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -25 \\ \hline \end{array}$
7.	$\begin{array}{r} 129 \\ -67 \\ \hline \end{array}$	$\begin{array}{r} 839 \\ -97 \\ \hline \end{array}$	$\begin{array}{r} 425 \\ -84 \\ \hline \end{array}$	$\begin{array}{r} 987 \\ -95 \\ \hline \end{array}$	$\begin{array}{r} 654 \\ -57 \\ \hline \end{array}$	$\begin{array}{r} 832 \\ -51 \\ \hline \end{array}$
8.	$\begin{array}{r} 364 \\ -76 \\ \hline \end{array}$	$\begin{array}{r} 524 \\ -69 \\ \hline \end{array}$	$\begin{array}{r} 608 \\ -59 \\ \hline \end{array}$	$\begin{array}{r} 832 \\ -47 \\ \hline \end{array}$	$\begin{array}{r} 784 \\ -85 \\ \hline \end{array}$	$\begin{array}{r} 477 \\ -98 \\ \hline \end{array}$
9.	$\begin{array}{r} 584 \\ -75 \\ \hline \end{array}$	$\begin{array}{r} 834 \\ -15 \\ \hline \end{array}$	$\begin{array}{r} 679 \\ -89 \\ \hline \end{array}$	$\begin{array}{r} 983 \\ -91 \\ \hline \end{array}$	$\begin{array}{r} 201 \\ -96 \\ \hline \end{array}$	$\begin{array}{r} 485 \\ -98 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 54

My score: _____

Addition

$$\begin{array}{r}
 3 \\
 4 \\
 +5 \\
 \hline
 \end{array}
 \begin{array}{r}
 7 \\
 +5 \\
 \hline
 12
 \end{array}$$

$$3+4+5$$

$$7+5$$

$$12$$

$$\begin{array}{r}
 2 \\
 3 \\
 +4 \\
 \hline
 \end{array}
 \begin{array}{r}
 5 \\
 +4 \\
 \hline
 9
 \end{array}$$

$$2+3+4$$

$$\quad +4$$

$$\quad$$

$$\begin{array}{r}
 3 \\
 1 \\
 2 \\
 +5 \\
 \hline
 \end{array}
 \begin{array}{r}
 4 \\
 2 \\
 +5 \\
 \hline
 \end{array}
 \begin{array}{r}
 6 \\
 +5 \\
 \hline
 11
 \end{array}$$

$$3+1+2+5$$

$$\quad +2+5$$

$$\quad +5$$

$$\quad$$

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>
1.	$ \begin{array}{r} 1 \\ 5 \\ +7 \\ \hline \end{array} $	$ \begin{array}{r} 1 \\ 8 \\ +3 \\ \hline \end{array} $	$ \begin{array}{r} 7 \\ 2 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 4 \\ 5 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 7 \\ 1 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 2 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 7 \\ 2 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 6 \\ 3 \\ +5 \\ \hline \end{array} $
2.	$ \begin{array}{r} 3 \\ 2 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 1 \\ 7 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 6 \\ 2 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 4 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 3 \\ 3 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 3 \\ 5 \\ +7 \\ \hline \end{array} $	$ \begin{array}{r} 4 \\ 4 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 3 \\ 6 \\ +4 \\ \hline \end{array} $
3.	$ \begin{array}{r} 1 \\ 4 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 5 \\ 3 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 6 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 4 \\ 1 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 5 \\ +4 \\ \hline \end{array} $	$ \begin{array}{r} 5 \\ 4 \\ +2 \\ \hline \end{array} $	$ \begin{array}{r} 3 \\ 5 \\ +3 \\ \hline \end{array} $	$ \begin{array}{r} 6 \\ 3 \\ +2 \\ \hline \end{array} $
4.	$ \begin{array}{r} 2 \\ 3 \\ 3 \\ +5 \\ \hline \end{array} $	$ \begin{array}{r} 1 \\ 3 \\ 4 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 6 \\ 2 \\ 1 \\ +7 \\ \hline \end{array} $	$ \begin{array}{r} 5 \\ 3 \\ 1 \\ +4 \\ \hline \end{array} $	$ \begin{array}{r} 4 \\ 4 \\ 1 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 7 \\ 1 \\ 1 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 6 \\ 2 \\ 1 \\ +7 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 3 \\ 4 \\ +9 \\ \hline \end{array} $
5.	$ \begin{array}{r} 1 \\ 2 \\ 6 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 1 \\ 3 \\ 5 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 1 \\ 5 \\ +7 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 2 \\ 5 \\ +8 \\ \hline \end{array} $	$ \begin{array}{r} 3 \\ 2 \\ 4 \\ +7 \\ \hline \end{array} $	$ \begin{array}{r} 3 \\ 1 \\ 2 \\ +9 \\ \hline \end{array} $	$ \begin{array}{r} 4 \\ 1 \\ 4 \\ +6 \\ \hline \end{array} $	$ \begin{array}{r} 2 \\ 3 \\ 2 \\ +3 \\ \hline \end{array} $

Check your answers. Record your score.

Perfect score: 40

My score: _____

Problems

Solve each problem.

1. A football team gained 2 yards on first down, 3 yards on second down, and 6 yards on third down. How many yards did they gain in the three downs?

They gained _____ yards on first down.

They gained _____ yards on second down.

They gained _____ yards on third down.

They gained _____ yards in the three downs.

2. Mrs. Woods purchased 5 apples, 4 oranges, and 6 pears. How many pieces of fruit did she purchase?

She purchased _____ apples.

She purchased _____ oranges.

She purchased _____ pears.

She purchased _____ pieces of fruit.

3. One day the park department planted 3 maple trees, 4 oak trees, 2 poplar trees, and 7 aspen trees. How many of these kinds of trees did they plant that day?

They planted _____ maples.

They planted _____ oaks.

They planted _____ poplars.

They planted _____ aspens.

They planted _____ of these trees.

4. At the park there are 3 jungle gyms, 6 seesaws, and 2 monkey bars. How many pieces of playground equipment are there?

There are _____ pieces of playground equipment.

1.

2.

3.

4.

Check your answers. Record your score.

Perfect score: 14

My score: _____

Addition

$$\begin{array}{r} 46 \\ +27 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{1}{4}6 \\ +2\overset{1}{7} \\ \hline 3 \end{array}$$

$$\begin{array}{r} \overset{1}{4}6 \\ +27 \\ \hline 73 \end{array}$$

Add the ones. $6+7=$ _____Rename 13. $13=10+$ _____Add the tens. $10+40+20=$ _____

Add.

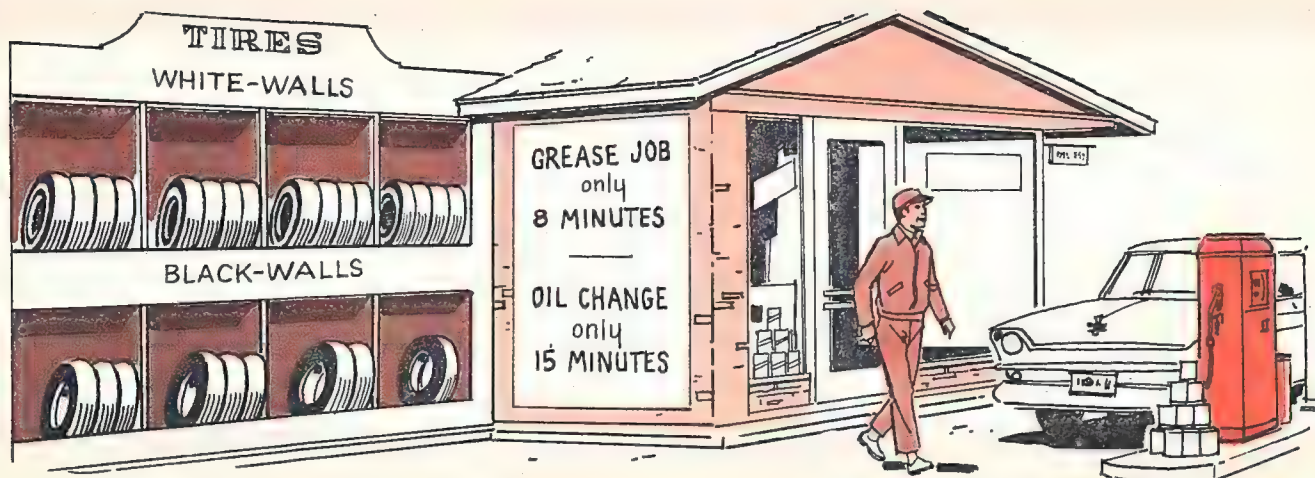
	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 17 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ +8 \\ \hline \end{array}$
2.	$\begin{array}{r} 3 \\ +28 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +64 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +56 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +37 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +38 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +65 \\ \hline \end{array}$
3.	$\begin{array}{r} 32 \\ +28 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ +15 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ +16 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ +18 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ +55 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ +27 \\ \hline \end{array}$
4.	$\begin{array}{r} 25 \\ +46 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ +14 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ +25 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ +33 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ +26 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ +44 \\ \hline \end{array}$
5.	$\begin{array}{r} 38 \\ +45 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ +39 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ +28 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ +52 \\ \hline \end{array}$	$\begin{array}{r} 44 \\ +29 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ +18 \\ \hline \end{array}$
6.	$\begin{array}{r} 37 \\ +36 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ +19 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ +29 \\ \hline \end{array}$	$\begin{array}{r} 58 \\ +19 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ +27 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ +27 \\ \hline \end{array}$
7.	$\begin{array}{r} 35 \\ +48 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ +75 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ +49 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ +38 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ +58 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ +29 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems



Solve each problem.

1. How many tires are on the tire rack?

There are _____ white-wall tires.

There are _____ black-wall tires.

There are _____ tires on the tire rack.

2. How long would it take to grease a car and change the oil?

It takes about _____ minutes to grease a car.

It takes about _____ minutes to change the oil.

It would take about _____ minutes to grease a car and change the oil.

3. This morning 37 people got regular gasoline and 5 got premium gasoline. How many people got gasoline?

_____ people got gasoline.

4. Mr. Wells got 17 gallons of gasoline on Tuesday. He got 19 gallons on Friday. How many gallons did he get in the two days?

He got _____ gallons in the two days.

1.

2.

3.

4.

Check your answers. Record your score.

Perfect score: 8

My score: _____

Addition

NAME _____

$$\begin{array}{r} 48 \\ 57 \\ +29 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 7 \\ +9 \\ \hline 15 \\ +9 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 48 \\ 57 \\ +29 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 48 \\ 57 \\ +29 \\ \hline 134 \end{array}$$

Add the ones. $8 + 7 + 9 =$ _____

Add the tens.

$20 + 40 + 50 + 20 =$ _____

Rename 24. $24 = 20 +$ _____

Rename 130. $130 = 100 +$ _____

Add.

a

$$\begin{array}{r} 1. \quad 73 \\ +52 \\ \hline \end{array}$$

b

$$\begin{array}{r} 64 \\ +93 \\ \hline \end{array}$$

c

$$\begin{array}{r} 65 \\ +64 \\ \hline \end{array}$$

d

$$\begin{array}{r} 51 \\ +78 \\ \hline \end{array}$$

e

$$\begin{array}{r} 82 \\ +34 \\ \hline \end{array}$$

f

$$\begin{array}{r} 60 \\ +57 \\ \hline \end{array}$$

2. $\begin{array}{r} 47 \\ +81 \\ \hline \end{array}$

$\begin{array}{r} 56 \\ +82 \\ \hline \end{array}$

$\begin{array}{r} 78 \\ +41 \\ \hline \end{array}$

$\begin{array}{r} 84 \\ +92 \\ \hline \end{array}$

$\begin{array}{r} 76 \\ +83 \\ \hline \end{array}$

$\begin{array}{r} 86 \\ +53 \\ \hline \end{array}$

3. $\begin{array}{r} 28 \\ +73 \\ \hline \end{array}$

$\begin{array}{r} 39 \\ +92 \\ \hline \end{array}$

$\begin{array}{r} 87 \\ +73 \\ \hline \end{array}$

$\begin{array}{r} 99 \\ +51 \\ \hline \end{array}$

$\begin{array}{r} 79 \\ +53 \\ \hline \end{array}$

$\begin{array}{r} 56 \\ +75 \\ \hline \end{array}$

4. $\begin{array}{r} 62 \\ 54 \\ +72 \\ \hline \end{array}$

$\begin{array}{r} 72 \\ 83 \\ +51 \\ \hline \end{array}$

$\begin{array}{r} 95 \\ 61 \\ +22 \\ \hline \end{array}$

$\begin{array}{r} 95 \\ 82 \\ +71 \\ \hline \end{array}$

$\begin{array}{r} 52 \\ 21 \\ +66 \\ \hline \end{array}$

$\begin{array}{r} 32 \\ 23 \\ +94 \\ \hline \end{array}$

5. $\begin{array}{r} 62 \\ 75 \\ +43 \\ \hline \end{array}$

$\begin{array}{r} 83 \\ 75 \\ +64 \\ \hline \end{array}$

$\begin{array}{r} 96 \\ 87 \\ +42 \\ \hline \end{array}$

$\begin{array}{r} 86 \\ 78 \\ +54 \\ \hline \end{array}$

$\begin{array}{r} 67 \\ 32 \\ +45 \\ \hline \end{array}$

$\begin{array}{r} 84 \\ 23 \\ +57 \\ \hline \end{array}$

6. $\begin{array}{r} 61 \\ 22 \\ +17 \\ \hline \end{array}$

$\begin{array}{r} 63 \\ 57 \\ +83 \\ \hline \end{array}$

$\begin{array}{r} 96 \\ 48 \\ +76 \\ \hline \end{array}$

$\begin{array}{r} 27 \\ 83 \\ +91 \\ \hline \end{array}$

$\begin{array}{r} 81 \\ 89 \\ +95 \\ \hline \end{array}$

$\begin{array}{r} 75 \\ 36 \\ +24 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 36

My score: _____

Problems

Solve each problem.

1. One year Roger Maris hit 61 home runs. Mickey Mantle hit 54 home runs. How many home runs did they hit that year?

Roger Maris hit _____ home runs.

Mickey Mantle hit _____ home runs.

They hit a total of _____ home runs.

2. Last week Tony read a 76-page book. This week he read an 83-page book. How many pages are in the two books?

Last week he read a _____ -page book.

This week he read an _____ -page book.

There are _____ pages in the two books.

3. Jackie has 75 feet of kite string. Mike has 96 feet of kite string. How much kite string do they have?

They have _____ feet of kite string.

4. Mrs. Wills went 57 miles the first hour. She went 65 miles the second hour. She went 52 miles the third hour. How far did she go?

She went _____ miles.

5. Yesterday the fruit market sold 68 cantaloupes, 14 honey dew melons, and 76 watermelons. How many of these kinds of melons did they sell altogether?

They sold _____ melons.

6. A cafeteria served 52 women, 47 men, and 69 children. How many people did the cafeteria serve?

The cafeteria served _____ people.

1.

2.

3.

4.

5.

6.

Check your answers. Record your score.

Perfect score: 10

My score: _____

NAME _____

Subtraction

$$\begin{array}{r} 147 \\ -19 \\ \hline \end{array}$$

$$\begin{array}{r} 147 \\ -19 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 317 \\ 147 \\ -19 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 317 \\ 147 \\ -19 \\ \hline 128 \end{array}$$

To subtract the ones,
rename 147 as $100 + 30 + 17$.

Subtract the tens. $30 - 10 =$ _____Subtract the ones. $17 - 9 =$ _____Subtract the hundreds. $100 - 0 =$ _____

Subtract.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 26 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 72 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ -7 \\ \hline \end{array}$
2.	$\begin{array}{r} 23 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ -16 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ -37 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ -26 \\ \hline \end{array}$
3.	$\begin{array}{r} 64 \\ -37 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ -24 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ -38 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ -47 \\ \hline \end{array}$
4.	$\begin{array}{r} 153 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 625 \\ -16 \\ \hline \end{array}$	$\begin{array}{r} 171 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 835 \\ -19 \\ \hline \end{array}$	$\begin{array}{r} 135 \\ -16 \\ \hline \end{array}$	$\begin{array}{r} 635 \\ -26 \\ \hline \end{array}$
5.	$\begin{array}{r} 543 \\ -26 \\ \hline \end{array}$	$\begin{array}{r} 175 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} 483 \\ -75 \\ \hline \end{array}$	$\begin{array}{r} 125 \\ -19 \\ \hline \end{array}$	$\begin{array}{r} 785 \\ -49 \\ \hline \end{array}$	$\begin{array}{r} 135 \\ -27 \\ \hline \end{array}$
6.	$\begin{array}{r} 524 \\ -15 \\ \hline \end{array}$	$\begin{array}{r} 684 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 895 \\ -26 \\ \hline \end{array}$	$\begin{array}{r} 768 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 726 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 325 \\ -16 \\ \hline \end{array}$
7.	$\begin{array}{r} 385 \\ -76 \\ \hline \end{array}$	$\begin{array}{r} 735 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 633 \\ -15 \\ \hline \end{array}$	$\begin{array}{r} 354 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 576 \\ -47 \\ \hline \end{array}$	$\begin{array}{r} 880 \\ -35 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems

Solve each problem.

1. Alvin kicked a football 32 yards and Walter kicked it 19 yards. How much farther did Alvin kick the football than Walter?

Alvin kicked the football _____ yards.

Walter kicked the football _____ yards.

Alvin kicked the football _____ yards farther than Walter.

2. The gas tank on Mr. Richards' car can hold 23 gallons. It took 17 gallons to fill the tank. How many gallons were in the tank before filling up?

The tank will hold _____ gallons.

He purchased _____ gallons.

There were _____ gallons in the tank before filling up.

3. Joy jumped rope 42 times. Rachel jumped it 27 times. How many more times did Joy jump the rope?

Joy jumped _____ times without missing.

Rachel jumped _____ times without missing.

Joy jumped _____ more times without missing than Rachel.

4. There are 283 pupils at Adams school. Sixty-seven of these pupils were in the park program last year. How many of the pupils were not in the program?

_____ pupils were not in the program.

5. Pablo's father weighs 173 pounds. Pablo weighs 65 pounds. How much more does Pablo's father weigh?

Pablo's father weighs _____ pounds more.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 11

My score: _____

Subtraction

NAME _____

$$\begin{array}{r} 306 \\ -89 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{210}{\cancel{306}} \\ -89 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{9}{\overset{21016}{\cancel{306}}} \\ -89 \\ \hline 7 \end{array}$$

$$\begin{array}{r} \overset{9}{\overset{21016}{\cancel{306}}} \\ -89 \\ \hline 217 \end{array}$$

To subtract ones:

Rename 306 as $200 + 100 + 6$.

Then rename $100 + 6$ as $90 +$ _____.

Subtract the ones. $16 - 9 =$ _____

Subtract tens.

$90 - 80 =$ _____

Subtract hundreds.

$200 - 0 =$ _____

Subtract.

a

$$\begin{array}{r} 154 \\ -61 \\ \hline \end{array}$$

b

$$\begin{array}{r} 125 \\ -74 \\ \hline \end{array}$$

c

$$\begin{array}{r} 107 \\ -56 \\ \hline \end{array}$$

d

$$\begin{array}{r} 137 \\ -50 \\ \hline \end{array}$$

e

$$\begin{array}{r} 124 \\ -53 \\ \hline \end{array}$$

f

$$\begin{array}{r} 126 \\ -71 \\ \hline \end{array}$$

$$\begin{array}{r} 411 \\ -80 \\ \hline \end{array}$$

$$\begin{array}{r} 429 \\ -39 \\ \hline \end{array}$$

$$\begin{array}{r} 862 \\ -91 \\ \hline \end{array}$$

$$\begin{array}{r} 428 \\ -37 \\ \hline \end{array}$$

$$\begin{array}{r} 784 \\ -93 \\ \hline \end{array}$$

$$\begin{array}{r} 605 \\ -71 \\ \hline \end{array}$$

$$\begin{array}{r} 984 \\ -97 \\ \hline \end{array}$$

$$\begin{array}{r} 352 \\ -65 \\ \hline \end{array}$$

$$\begin{array}{r} 604 \\ -75 \\ \hline \end{array}$$

$$\begin{array}{r} 671 \\ -93 \\ \hline \end{array}$$

$$\begin{array}{r} 325 \\ -46 \\ \hline \end{array}$$

$$\begin{array}{r} 864 \\ -79 \\ \hline \end{array}$$

$$\begin{array}{r} 168 \\ -69 \\ \hline \end{array}$$

$$\begin{array}{r} 906 \\ -97 \\ \hline \end{array}$$

$$\begin{array}{r} 384 \\ -96 \\ \hline \end{array}$$

$$\begin{array}{r} 763 \\ -94 \\ \hline \end{array}$$

$$\begin{array}{r} 286 \\ -98 \\ \hline \end{array}$$

$$\begin{array}{r} 857 \\ -69 \\ \hline \end{array}$$

$$\begin{array}{r} 666 \\ -88 \\ \hline \end{array}$$

$$\begin{array}{r} 127 \\ -49 \\ \hline \end{array}$$

$$\begin{array}{r} 700 \\ -99 \\ \hline \end{array}$$

$$\begin{array}{r} 318 \\ -79 \\ \hline \end{array}$$

$$\begin{array}{r} 722 \\ -59 \\ \hline \end{array}$$

$$\begin{array}{r} 821 \\ -48 \\ \hline \end{array}$$

$$\begin{array}{r} 454 \\ -67 \\ \hline \end{array}$$

$$\begin{array}{r} 357 \\ -89 \\ \hline \end{array}$$

$$\begin{array}{r} 183 \\ -94 \\ \hline \end{array}$$

$$\begin{array}{r} 306 \\ -58 \\ \hline \end{array}$$

$$\begin{array}{r} 854 \\ -95 \\ \hline \end{array}$$

$$\begin{array}{r} 347 \\ -79 \\ \hline \end{array}$$

$$\begin{array}{r} 346 \\ -88 \\ \hline \end{array}$$

$$\begin{array}{r} 464 \\ -87 \\ \hline \end{array}$$

$$\begin{array}{r} 207 \\ -49 \\ \hline \end{array}$$

$$\begin{array}{r} 123 \\ -34 \\ \hline \end{array}$$

$$\begin{array}{r} 253 \\ -78 \\ \hline \end{array}$$

$$\begin{array}{r} 241 \\ -59 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems

Solve each problem.

1. A school building is 64 feet high. A flagpole is 125 feet high. How much higher is the flagpole? 1.

The flag pole is _____ feet high.

The school building is _____ feet high.

The flag pole is _____ feet higher.

2. Steve threw a ball 117 feet. His cousin threw it 86 feet. How much farther did Steve throw it? 2.

Steve threw the ball _____ feet.

His cousin threw the ball _____ feet.

Steve threw the ball _____ feet farther.

3. The engine of the Smiths' car is rated at 95 horsepower. The horsepower of one of the racers at the local speedway is 365. What is the difference in the horsepower of the two engines? 3.

The racer has _____ horsepower.

The Smiths' car has _____ horsepower.

The racer has _____ more horsepower.

4. Last year Mrs. Moore's bowling average was 91. This year her average is 123. How much has her bowling average improved over last year? 4.

Her average has improved _____ points.

5. Trudy is reading a 234-page book. She has read 57 pages. How many more pages does she still have to read? 5.

She has _____ pages yet to read.

Check your answers. Record your score.

Perfect score: 11

My score: _____

Addition and Subtraction

$$\begin{array}{r} 62 \\ + 57 \\ \hline 119 \\ - 57 \\ \hline 62 \end{array}$$

To check $62 + 57 = 119$,
subtract 57 from 119.

The difference should be _____.

$$\begin{array}{r} 125 \\ - 67 \\ \hline 58 \\ + 67 \\ \hline 125 \end{array}$$

To check $125 - 67 = 58$,
add _____ to 58.

The sum should be _____.

Add. Check each answer.

a

$$\begin{array}{r} 1. \quad 42 \\ + 25 \\ \hline \end{array}$$

b

$$\begin{array}{r} 63 \\ + 35 \\ \hline \end{array}$$

c

$$\begin{array}{r} 24 \\ + 64 \\ \hline \end{array}$$

d

$$\begin{array}{r} 26 \\ + 47 \\ \hline \end{array}$$

e

$$\begin{array}{r} 38 \\ + 42 \\ \hline \end{array}$$

f

$$\begin{array}{r} 59 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 63 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ + 95 \\ \hline \end{array}$$

Subtract. Check each answer.

$$\begin{array}{r} 3. \quad 85 \\ - 24 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 125 \\ - 63 \\ \hline \end{array}$$

$$\begin{array}{r} 146 \\ - 83 \\ \hline \end{array}$$

$$\begin{array}{r} 164 \\ - 73 \\ \hline \end{array}$$

$$\begin{array}{r} 104 \\ - 86 \\ \hline \end{array}$$

$$\begin{array}{r} 152 \\ - 64 \\ \hline \end{array}$$

$$\begin{array}{r} 186 \\ - 97 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 24

My score: _____

Addition and Subtraction

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 5 \\ 7 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ 5 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 8 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 3 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 7 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 3 \\ +7 \\ \hline \end{array}$
2.	$\begin{array}{r} 38 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +49 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +67 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +47 \\ \hline \end{array}$
3.	$\begin{array}{r} 47 \\ +24 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ +48 \\ \hline \end{array}$	$\begin{array}{r} 91 \\ +26 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ +74 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ +356 \\ \hline \end{array}$	$\begin{array}{r} 435 \\ +93 \\ \hline \end{array}$
4.	$\begin{array}{r} 15 \\ 22 \\ +45 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ 33 \\ +18 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ 12 \\ +85 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ 87 \\ +41 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ 156 \\ +42 \\ \hline \end{array}$	$\begin{array}{r} 785 \\ 31 \\ +56 \\ \hline \end{array}$

Subtract.

5.	$\begin{array}{r} 36 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -9 \\ \hline \end{array}$
6.	$\begin{array}{r} 43 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ -18 \\ \hline \end{array}$	$\begin{array}{r} 93 \\ -44 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ -49 \\ \hline \end{array}$
7.	$\begin{array}{r} 147 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 264 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 784 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 673 \\ -54 \\ \hline \end{array}$	$\begin{array}{r} 270 \\ -53 \\ \hline \end{array}$	$\begin{array}{r} 687 \\ -59 \\ \hline \end{array}$
8.	$\begin{array}{r} 245 \\ -93 \\ \hline \end{array}$	$\begin{array}{r} 705 \\ -73 \\ \hline \end{array}$	$\begin{array}{r} 248 \\ -75 \\ \hline \end{array}$	$\begin{array}{r} 638 \\ -85 \\ \hline \end{array}$	$\begin{array}{r} 459 \\ -87 \\ \hline \end{array}$	$\begin{array}{r} 317 \\ -45 \\ \hline \end{array}$
9.	$\begin{array}{r} 345 \\ -76 \\ \hline \end{array}$	$\begin{array}{r} 508 \\ -59 \\ \hline \end{array}$	$\begin{array}{r} 867 \\ -89 \\ \hline \end{array}$	$\begin{array}{r} 316 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 707 \\ -48 \\ \hline \end{array}$	$\begin{array}{r} 465 \\ -68 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 54

My score: _____

TEST—Addition and Subtraction

Add. Check each answer.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 37 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +47 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +48 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +81 \\ \hline \end{array}$

2.	$\begin{array}{r} 65 \\ +27 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ +92 \\ \hline \end{array}$	$\begin{array}{r} 88 \\ +37 \\ \hline \end{array}$	$\begin{array}{r} 159 \\ +82 \\ \hline \end{array}$	$\begin{array}{r} 267 \\ +76 \\ \hline \end{array}$	$\begin{array}{r} 347 \\ +96 \\ \hline \end{array}$
----	--	--	--	---	---	---

Subtract. Check each answer.

3.	$\begin{array}{r} 84 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ -49 \\ \hline \end{array}$	$\begin{array}{r} 93 \\ -38 \\ \hline \end{array}$	$\begin{array}{r} 61 \\ -47 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -59 \\ \hline \end{array}$
----	--	--	--	--	--	--

4.	$\begin{array}{r} 135 \\ -64 \\ \hline \end{array}$	$\begin{array}{r} 126 \\ -84 \\ \hline \end{array}$	$\begin{array}{r} 463 \\ -72 \\ \hline \end{array}$	$\begin{array}{r} 153 \\ -96 \\ \hline \end{array}$	$\begin{array}{r} 384 \\ -96 \\ \hline \end{array}$	$\begin{array}{r} 302 \\ -85 \\ \hline \end{array}$
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Solve.

5. Manny weighs 67 pounds, Carlos weighs 73 pounds, and Alex weighs 78 pounds. What is their combined weight?

5.

Their combined weight is _____ pounds.

Check your answers. Record your score.

Perfect score: 25

My score: _____

PRE-TEST—Addition and Subtraction

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 621 \\ +214 \\ \hline \end{array}$	$\begin{array}{r} 345 \\ +332 \\ \hline \end{array}$	$\begin{array}{r} 426 \\ +153 \\ \hline \end{array}$	$\begin{array}{r} 425 \\ +316 \\ \hline \end{array}$	$\begin{array}{r} 245 \\ +127 \\ \hline \end{array}$	$\begin{array}{r} 458 \\ +329 \\ \hline \end{array}$
2.	$\begin{array}{r} 425 \\ +193 \\ \hline \end{array}$	$\begin{array}{r} 373 \\ +282 \\ \hline \end{array}$	$\begin{array}{r} 625 \\ +193 \\ \hline \end{array}$	$\begin{array}{r} 624 \\ +732 \\ \hline \end{array}$	$\begin{array}{r} 506 \\ +792 \\ \hline \end{array}$	$\begin{array}{r} 591 \\ +805 \\ \hline \end{array}$
3.	$\begin{array}{r} 397 \\ +113 \\ \hline \end{array}$	$\begin{array}{r} 287 \\ +125 \\ \hline \end{array}$	$\begin{array}{r} 926 \\ +7287 \\ \hline \end{array}$	$\begin{array}{r} 3452 \\ +1139 \\ \hline \end{array}$	$\begin{array}{r} 4646 \\ +1283 \\ \hline \end{array}$	$\begin{array}{r} 5252 \\ +3934 \\ \hline \end{array}$
4.	$\begin{array}{r} 31 \\ 10 \\ +24 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ 16 \\ +23 \\ \hline \end{array}$	$\begin{array}{r} 232 \\ 151 \\ +474 \\ \hline \end{array}$	$\begin{array}{r} 531 \\ 612 \\ +743 \\ \hline \end{array}$	$\begin{array}{r} 2137 \\ 3272 \\ +1324 \\ \hline \end{array}$	$\begin{array}{r} 4573 \\ 2281 \\ +1654 \\ \hline \end{array}$
5.	$\begin{array}{r} 12 \\ 21 \\ 31 \\ +12 \\ \hline \end{array}$	$\begin{array}{r} 200 \\ 413 \\ 134 \\ +131 \\ \hline \end{array}$	$\begin{array}{r} 3171 \\ 1540 \\ 2134 \\ +1023 \\ \hline \end{array}$	$\begin{array}{r} 3421 \\ 1313 \\ 1510 \\ +2643 \\ \hline \end{array}$	$\begin{array}{r} 3117 \\ 2375 \\ 1132 \\ +1214 \\ \hline \end{array}$	$\begin{array}{r} 3774 \\ 1571 \\ 3232 \\ +1351 \\ \hline \end{array}$

Subtract.

6.	$\begin{array}{r} 657 \\ -234 \\ \hline \end{array}$	$\begin{array}{r} 745 \\ -416 \\ \hline \end{array}$	$\begin{array}{r} 967 \\ -173 \\ \hline \end{array}$	$\begin{array}{r} 406 \\ -257 \\ \hline \end{array}$	$\begin{array}{r} 5627 \\ -512 \\ \hline \end{array}$	$\begin{array}{r} 4848 \\ -425 \\ \hline \end{array}$
7.	$\begin{array}{r} 4357 \\ -138 \\ \hline \end{array}$	$\begin{array}{r} 5725 \\ -273 \\ \hline \end{array}$	$\begin{array}{r} 6753 \\ -902 \\ \hline \end{array}$	$\begin{array}{r} 7425 \\ -286 \\ \hline \end{array}$	$\begin{array}{r} 8652 \\ -937 \\ \hline \end{array}$	$\begin{array}{r} 6053 \\ -782 \\ \hline \end{array}$
8.	$\begin{array}{r} 4357 \\ -1132 \\ \hline \end{array}$	$\begin{array}{r} 5678 \\ -1429 \\ \hline \end{array}$	$\begin{array}{r} 3675 \\ -1294 \\ \hline \end{array}$	$\begin{array}{r} 5678 \\ -2923 \\ \hline \end{array}$	$\begin{array}{r} 7802 \\ -3254 \\ \hline \end{array}$	$\begin{array}{r} 9797 \\ -1898 \\ \hline \end{array}$
9.	$\begin{array}{r} 67524 \\ -1321 \\ \hline \end{array}$	$\begin{array}{r} 34723 \\ -2308 \\ \hline \end{array}$	$\begin{array}{r} 78243 \\ -4152 \\ \hline \end{array}$	$\begin{array}{r} 80145 \\ -1913 \\ \hline \end{array}$	$\begin{array}{r} 76762 \\ -9341 \\ \hline \end{array}$	$\begin{array}{r} 78545 \\ -2837 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 54

My score: _____

Addition and Subtraction

A	B	C	D	E	F
$\begin{array}{r} 783 \\ +562 \\ \hline 5 \end{array}$	$\begin{array}{r} 783 \\ +562 \\ \hline 45 \end{array}$	$\begin{array}{r} 783 \\ +562 \\ \hline 1345 \end{array}$	$\begin{array}{r} 1253 \\ -582 \\ \hline 1 \end{array}$	$\begin{array}{r} 1253 \\ -582 \\ \hline 71 \end{array}$	$\begin{array}{r} 1253 \\ -582 \\ \hline 671 \end{array}$

A Add ones. $3 + 2 =$ _____D Subtract ones. $3 - 2 =$ _____B Add tens. $80 + 60 =$ _____E To subtract tens, rename
 $1000 + 200 + 50$ as

Rename 140 as _____ + 40.

 $1000 + 100 +$ _____.Subtract tens. $150 - 80 =$ _____C Add hundreds. $100 + 700 + 500 =$ _____

F To subtract hundreds, rename

Rename 1300 as _____ + 300.

 $1000 + 100$ as _____.

Subtract hundreds.

 $1100 - 500 =$ _____

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 432 \\ +325 \\ \hline \end{array}$	$\begin{array}{r} 325 \\ +536 \\ \hline \end{array}$	$\begin{array}{r} 232 \\ +573 \\ \hline \end{array}$	$\begin{array}{r} 325 \\ +814 \\ \hline \end{array}$	$\begin{array}{r} 328 \\ +193 \\ \hline \end{array}$	$\begin{array}{r} 529 \\ +287 \\ \hline \end{array}$
2.	$\begin{array}{r} 675 \\ +907 \\ \hline \end{array}$	$\begin{array}{r} 867 \\ +325 \\ \hline \end{array}$	$\begin{array}{r} 625 \\ +594 \\ \hline \end{array}$	$\begin{array}{r} 891 \\ +536 \\ \hline \end{array}$	$\begin{array}{r} 675 \\ +738 \\ \hline \end{array}$	$\begin{array}{r} 475 \\ +969 \\ \hline \end{array}$
3.	$\begin{array}{r} 357 \\ +528 \\ \hline \end{array}$	$\begin{array}{r} 146 \\ +494 \\ \hline \end{array}$	$\begin{array}{r} 734 \\ +859 \\ \hline \end{array}$	$\begin{array}{r} 536 \\ +673 \\ \hline \end{array}$	$\begin{array}{r} 867 \\ +795 \\ \hline \end{array}$	$\begin{array}{r} 893 \\ +757 \\ \hline \end{array}$

Subtract.

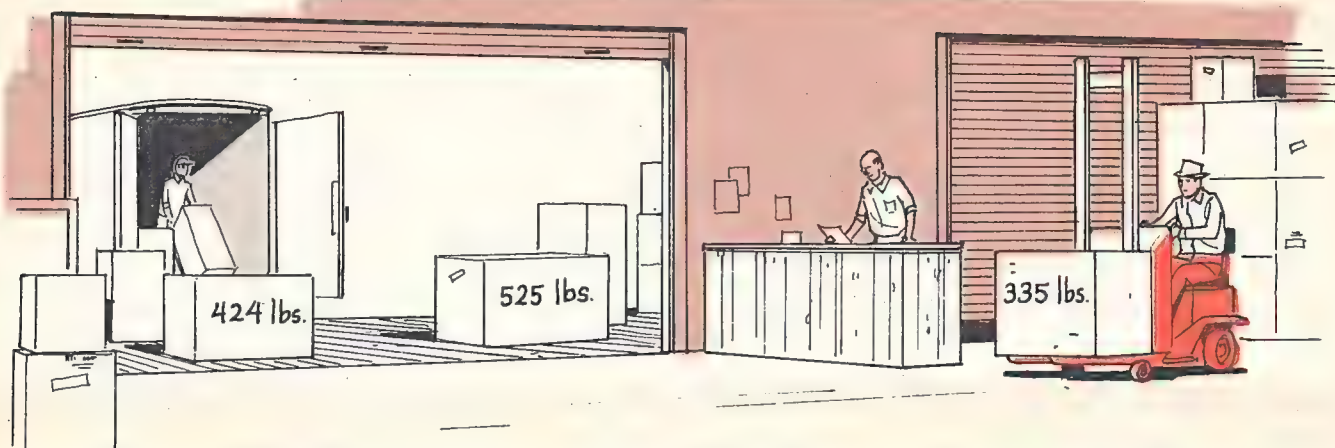
	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
4.	$\begin{array}{r} 857 \\ -143 \\ \hline \end{array}$	$\begin{array}{r} 757 \\ -129 \\ \hline \end{array}$	$\begin{array}{r} 467 \\ -182 \\ \hline \end{array}$	$\begin{array}{r} 952 \\ -278 \\ \hline \end{array}$	$\begin{array}{r} 863 \\ -389 \\ \hline \end{array}$
5.	$\begin{array}{r} 1489 \\ -527 \\ \hline \end{array}$	$\begin{array}{r} 1246 \\ -813 \\ \hline \end{array}$	$\begin{array}{r} 1578 \\ -927 \\ \hline \end{array}$	$\begin{array}{r} 1728 \\ -919 \\ \hline \end{array}$	$\begin{array}{r} 1373 \\ -548 \\ \hline \end{array}$
6.	$\begin{array}{r} 1458 \\ -773 \\ \hline \end{array}$	$\begin{array}{r} 1732 \\ -961 \\ \hline \end{array}$	$\begin{array}{r} 1420 \\ -735 \\ \hline \end{array}$	$\begin{array}{r} 1254 \\ -995 \\ \hline \end{array}$	$\begin{array}{r} 1652 \\ -797 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 33

My score: _____

Problems



Answer each question.

1. What is the combined weight of the 335-pound shipment and the 525-pound shipment?

Are you to add or subtract? _____

What is the combined weight? _____

2. The lift truck can lift a maximum of 950 pounds. How many pounds less than the maximum does the lift truck shown above have on it?

Are you to add or subtract? _____

How many pounds less than the maximum are on the lift truck? _____

3. What is the combined weight of the two heavier shipments shown above?

Are you to add or subtract? _____

What is the combined weight? _____

4. The lift truck shown above weighs 1,925 pounds when empty. How many pounds more does it weigh than the load it is carrying?

Are you to add or subtract? _____

How many pounds more does the lift truck weigh than its load? _____

5. One of the shipments will be sent to a dealer 1,453 miles away. Another will go to a warehouse 545 miles away. How much farther will the first shipment travel?

Are you to add or subtract? _____

How much farther will the first shipment travel? _____

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 10

My score: _____

Addition and Subtraction

$$\begin{array}{r} 5281 \\ + 7306 \\ \hline \end{array}$$

$$\begin{array}{r} 5281 \\ + 7306 \\ \hline 12587 \end{array}$$

$$\begin{array}{r} 12587 \\ - 7306 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{12}{\cancel{12}}587 \\ - 7306 \\ \hline 5281 \end{array}$$

Add ones. $1 + 6 = \underline{\hspace{2cm}}$

Add tens. $80 + 0 = \underline{\hspace{2cm}}$

Add hundreds. $200 + 300 = \underline{\hspace{2cm}}$

Add thousands. $5000 + 7000 = \underline{\hspace{2cm}}$

Rename 12000 as $\underline{\hspace{2cm}} + 2000$.

Subtract ones. $7 - 6 = \underline{\hspace{2cm}}$

Subtract tens. $80 - 0 = \underline{\hspace{2cm}}$

Subtract hundreds. $500 - 300 = \underline{\hspace{2cm}}$

To subtract thousands,
rename 10000 + 2000 as $\underline{\hspace{2cm}}$.

Subtract thousands. $12000 - 7000 = \underline{\hspace{2cm}}$

Add.

$$\begin{array}{r} a \\ 1. \quad 3253 \\ + 1424 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ \quad 6725 \\ + 1138 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ \quad 2456 \\ + 3293 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ \quad 5263 \\ + 1824 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ \quad 6245 \\ + 7403 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 5478 \\ + 2325 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 5769 \\ + 3914 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 6518 \\ + 9246 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 5382 \\ + 1664 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 7683 \\ + 8185 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 8121 \\ + 7934 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 2523 \\ + 4694 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 6378 \\ + 7164 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 3235 \\ + 4917 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 8483 \\ + 9658 \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 4. \quad 2675 \\ - 436 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 3675 \\ - 594 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 6725 \\ - 904 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 4307 \\ - 289 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 6352 \\ - 764 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 4357 \\ - 2349 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 6735 \\ - 1264 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 9525 \\ - 4603 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 5675 \\ - 2389 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 6052 \\ - 2968 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 16784 \\ - 7325 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 12543 \\ - 3362 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 15747 \\ - 6936 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 10137 \\ - 9652 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 17675 \\ - 8896 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 30

My score: _____

Problems

Solve each problem.

1. The school library contains 1,493 books. One day 198 books were checked out. How many books were left in the library?

There are _____ books in the library.

There were _____ books checked out.

There were _____ books left in the library.

2. Potter County sold 7,376 auto licenses. Randall County sold 5,924. How many did both counties sell?

_____ licenses were sold in Potter County.

_____ licenses were sold in Randall County.

_____ licenses were sold in the two counties.

3. The Myers want to buy a station wagon for \$4,365 or a sedan for \$2,978. How much more does the station wagon cost?

The station wagon costs _____ more.

4. St. Louis is 1,208 miles from Boston. San Francisco is 2,134 miles from St. Louis. How far is it from Boston to San Francisco by way of St. Louis?

It is _____ miles from Boston to San Francisco by way of St. Louis.

5. Mr. Odum drove 12,594 miles. Mr. Saxton drove 9,428 miles. How much farther did Mr. Odum drive?

Mr. Odum drove _____ miles farther.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 9

My score: _____

Addition

$$\begin{array}{r} 4325 \\ 6078 \\ 5298 \\ +5764 \\ \hline \end{array}$$

Add the ones.

$$5 + 8 + 8 + 4 = \underline{\hspace{2cm}}$$

Rename 25.

$$25 = \underline{\hspace{2cm}} + 5$$

$$\begin{array}{r} 4325 \\ 6078 \\ 5298 \\ +5764 \\ \hline \end{array}$$

Follow a similar pattern to add the tens, the hundreds, and so on.

$$\begin{array}{r} 122 \\ 4325 \\ 6078 \\ 5298 \\ +5764 \\ \hline 21465 \end{array}$$

Add.

$$\begin{array}{r} a \\ 1. \quad 24 \\ 31 \\ +40 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 46 \\ 23 \\ +15 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 45 \\ 62 \\ +71 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 45 \\ 13 \\ +21 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 52 \\ 23 \\ +71 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 34 \\ 21 \\ +112 \\ \hline \end{array}$$

$$\begin{array}{r} 126 \\ 12 \\ +624 \\ \hline \end{array}$$

$$\begin{array}{r} 345 \\ 162 \\ +71 \\ \hline \end{array}$$

$$\begin{array}{r} 524 \\ 630 \\ +721 \\ \hline \end{array}$$

$$\begin{array}{r} 305 \\ 131 \\ +422 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 3235 \\ 3112 \\ +1486 \\ \hline \end{array}$$

$$\begin{array}{r} 2145 \\ 3418 \\ +1932 \\ \hline \end{array}$$

$$\begin{array}{r} 8218 \\ 3245 \\ +4123 \\ \hline \end{array}$$

$$\begin{array}{r} 1353 \\ 2331 \\ +3642 \\ \hline \end{array}$$

$$\begin{array}{r} 4435 \\ 8271 \\ +4160 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 5641 \\ 2722 \\ +4833 \\ \hline \end{array}$$

$$\begin{array}{r} 1826 \\ 2574 \\ +4493 \\ \hline \end{array}$$

$$\begin{array}{r} 7137 \\ 8028 \\ +7656 \\ \hline \end{array}$$

$$\begin{array}{r} 2453 \\ 8742 \\ +2561 \\ \hline \end{array}$$

$$\begin{array}{r} 3417 \\ 8703 \\ +2854 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 5247 \\ 2403 \\ 1125 \\ +1017 \\ \hline \end{array}$$

$$\begin{array}{r} 3253 \\ 1161 \\ 1172 \\ +4080 \\ \hline \end{array}$$

$$\begin{array}{r} 1601 \\ 2722 \\ 3813 \\ +1241 \\ \hline \end{array}$$

$$\begin{array}{r} 5145 \\ 6201 \\ 2312 \\ +4021 \\ \hline \end{array}$$

$$\begin{array}{r} 1011 \\ 2462 \\ 3571 \\ +1254 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 1025 \\ 3113 \\ 1258 \\ +2464 \\ \hline \end{array}$$

$$\begin{array}{r} 1546 \\ 2335 \\ 3822 \\ +1941 \\ \hline \end{array}$$

$$\begin{array}{r} 4124 \\ 1231 \\ 5352 \\ +6075 \\ \hline \end{array}$$

$$\begin{array}{r} 3652 \\ 6274 \\ 3175 \\ +5112 \\ \hline \end{array}$$

$$\begin{array}{r} 6317 \\ 2164 \\ 5573 \\ +4258 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 30

My score: _____

Problems

The following problems are from the Ace Taxi Company records for three weeks.

Solve each problem.

1. The amounts of gasoline used were 324 gallons, 361 gallons, and 342 gallons. How much gasoline was used?

_____ gallons were used the first week.

_____ gallons were used the second week.

_____ gallons were used the third week.

_____ gallons were used in all.

2. One of the taxis ran for 126 hours, 133 hours, and 108 hours. How many hours did that taxi run?

It ran for _____ hours.

3. The miles driven by all the taxis were 2,942 miles, 3,351 miles, and 3,104 miles. What was the number of miles driven altogether?

_____ miles were driven in all.

4. The amounts of fares collected were \$2,421, \$2,733, and \$3,025. How much was collected in fares altogether?

_____ dollars were collected.

5. The number of passengers each week was 3,205 passengers, 3,542 passengers, and 2,821 passengers. How many passengers were there in all?

There were _____ passengers in all.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 8 My score: _____

Addition and Subtraction

Add.

- | | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> |
|----|--|--|--|--|--|
| 1. | $\begin{array}{r} 312 \\ +541 \\ \hline \end{array}$ | $\begin{array}{r} 135 \\ +427 \\ \hline \end{array}$ | $\begin{array}{r} 231 \\ +384 \\ \hline \end{array}$ | $\begin{array}{r} 532 \\ +614 \\ \hline \end{array}$ | $\begin{array}{r} 537 \\ +148 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 1456 \\ +218 \\ \hline \end{array}$ | $\begin{array}{r} 295 \\ +2461 \\ \hline \end{array}$ | $\begin{array}{r} 723 \\ +5413 \\ \hline \end{array}$ | $\begin{array}{r} 4561 \\ +349 \\ \hline \end{array}$ | $\begin{array}{r} 4624 \\ +597 \\ \hline \end{array}$ |
| 3. | $\begin{array}{r} 5247 \\ +2216 \\ \hline \end{array}$ | $\begin{array}{r} 4673 \\ +4285 \\ \hline \end{array}$ | $\begin{array}{r} 4672 \\ +1401 \\ \hline \end{array}$ | $\begin{array}{r} 5314 \\ +7053 \\ \hline \end{array}$ | $\begin{array}{r} 4314 \\ +3197 \\ \hline \end{array}$ |
| 4. | $\begin{array}{r} 42 \\ 13 \\ +25 \\ \hline \end{array}$ | $\begin{array}{r} 131 \\ 12 \\ +449 \\ \hline \end{array}$ | $\begin{array}{r} 213 \\ 227 \\ +384 \\ \hline \end{array}$ | $\begin{array}{r} 4163 \\ 5274 \\ +6521 \\ \hline \end{array}$ | $\begin{array}{r} 4712 \\ 1824 \\ +5531 \\ \hline \end{array}$ |
| 5. | $\begin{array}{r} 67 \\ 78 \\ 55 \\ +27 \\ \hline \end{array}$ | $\begin{array}{r} 731 \\ 142 \\ 253 \\ +461 \\ \hline \end{array}$ | $\begin{array}{r} 7325 \\ 2106 \\ 7347 \\ +2511 \\ \hline \end{array}$ | $\begin{array}{r} 5314 \\ 6024 \\ 7151 \\ +2235 \\ \hline \end{array}$ | $\begin{array}{r} 5678 \\ 2345 \\ 6789 \\ +4257 \\ \hline \end{array}$ |

Subtract.

- | | | | | | |
|----|---|---|---|---|---|
| 6. | $\begin{array}{r} 687 \\ -434 \\ \hline \end{array}$ | $\begin{array}{r} 754 \\ -236 \\ \hline \end{array}$ | $\begin{array}{r} 576 \\ -393 \\ \hline \end{array}$ | $\begin{array}{r} 605 \\ -388 \\ \hline \end{array}$ | $\begin{array}{r} 795 \\ -498 \\ \hline \end{array}$ |
| 7. | $\begin{array}{r} 1234 \\ -125 \\ \hline \end{array}$ | $\begin{array}{r} 3857 \\ -665 \\ \hline \end{array}$ | $\begin{array}{r} 4257 \\ -843 \\ \hline \end{array}$ | $\begin{array}{r} 4657 \\ -839 \\ \hline \end{array}$ | $\begin{array}{r} 5014 \\ -968 \\ \hline \end{array}$ |
| 8. | $\begin{array}{r} 7354 \\ -4038 \\ \hline \end{array}$ | $\begin{array}{r} 5619 \\ -2348 \\ \hline \end{array}$ | $\begin{array}{r} 4187 \\ -2574 \\ \hline \end{array}$ | $\begin{array}{r} 6753 \\ -1942 \\ \hline \end{array}$ | $\begin{array}{r} 7815 \\ -4176 \\ \hline \end{array}$ |
| 9. | $\begin{array}{r} 42573 \\ -1846 \\ \hline \end{array}$ | $\begin{array}{r} 36154 \\ -9038 \\ \hline \end{array}$ | $\begin{array}{r} 46124 \\ -9762 \\ \hline \end{array}$ | $\begin{array}{r} 54751 \\ -2896 \\ \hline \end{array}$ | $\begin{array}{r} 70534 \\ -7689 \\ \hline \end{array}$ |

Check your answers. Record your score.

Perfect score: 45 My score: _____

Problems

Solve each problem.

1. A pickup truck weighs 3,850 pounds. It was loaded with 2,425 pounds of freight. What is the weight of the pickup and its load?

The pickup truck weighs _____ pounds.

Its load weighs _____ pounds.

The total weight is _____ pounds.

2. At Wilson School there are 1,029 girls and 983 boys. How many more girls than boys are there at Wilson School?

There are _____ girls.

There are _____ boys.

There are _____ more girls than boys.

3. In an election, Mr. Krietmann got 4,327 votes. Mr. Staley got 2,539 votes. How many more votes did Mr. Krietmann get?

Mr. Krietmann received _____ more votes than Mr. Staley.

4. There were 9,852 people at a hockey game. There were 7,569 at a basketball game. How many were at these games?

_____ people were at the games.

5. Ty Cobb made 4,191 base hits in his baseball career. Babe Ruth made 2,873 base hits. How many more base hits did Cobb make?

Cobb made _____ more base hits.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 9

My score: _____

TEST—Addition and Subtraction

Add.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	$\begin{array}{r} 342 \\ +325 \\ \hline \end{array}$	$\begin{array}{r} 725 \\ +146 \\ \hline \end{array}$	$\begin{array}{r} 362 \\ +475 \\ \hline \end{array}$	$\begin{array}{r} 425 \\ +1723 \\ \hline \end{array}$	$\begin{array}{r} 284 \\ +1523 \\ \hline \end{array}$

2.	$\begin{array}{r} 3156 \\ +1327 \\ \hline \end{array}$	$\begin{array}{r} 2363 \\ +4195 \\ \hline \end{array}$	$\begin{array}{r} 3741 \\ +2625 \\ \hline \end{array}$	$\begin{array}{r} 8403 \\ +3445 \\ \hline \end{array}$	$\begin{array}{r} 3456 \\ +2157 \\ \hline \end{array}$
----	--	--	--	--	--

3.	$\begin{array}{r} 43 \\ 17 \\ +13 \\ \hline \end{array}$	$\begin{array}{r} 435 \\ 16 \\ +127 \\ \hline \end{array}$	$\begin{array}{r} 4113 \\ 1590 \\ +2671 \\ \hline \end{array}$	$\begin{array}{r} 234 \\ 357 \\ 214 \\ +526 \\ \hline \end{array}$	$\begin{array}{r} 5253 \\ 4376 \\ 2416 \\ +1327 \\ \hline \end{array}$
----	--	--	--	--	--

Subtract.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
4.	$\begin{array}{r} 625 \\ -407 \\ \hline \end{array}$	$\begin{array}{r} 908 \\ -436 \\ \hline \end{array}$	$\begin{array}{r} 1765 \\ -934 \\ \hline \end{array}$	$\begin{array}{r} 2576 \\ -882 \\ \hline \end{array}$

5.	$\begin{array}{r} 5724 \\ -1543 \\ \hline \end{array}$	$\begin{array}{r} 6753 \\ -1908 \\ \hline \end{array}$	$\begin{array}{r} 17024 \\ -9653 \\ \hline \end{array}$	$\begin{array}{r} 67543 \\ -9988 \\ \hline \end{array}$
----	--	--	---	---

Solve each problem.

6. The Empire State Building is 1,250 feet high and has a 222-foot TV tower on top. What is the combined height of the building and tower?

6.

The combined height is _____ feet.

7. The Smiths drove 8,454 miles. The Johnsons drove 9,649 miles. How many more miles did the Johnsons drive than the Smiths?

7.

The Johnsons drove _____ more miles.

Check your answers. Record your score.

Perfect score: 25

My score: _____

PRE-TEST—Multiplication

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$
2.	$\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 2 \\ \hline \end{array}$
3.	$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$
4.	$\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$
5.	$\begin{array}{r} 51 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ \times 5 \\ \hline \end{array}$
6.	$\begin{array}{r} 200 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 300 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 400 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 121 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 124 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 312 \\ \times 3 \\ \hline \end{array}$
7.	$\begin{array}{r} 105 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 124 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 325 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 121 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 172 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 283 \\ \times 3 \\ \hline \end{array}$
8.	$\begin{array}{r} 400 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 412 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 924 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 513 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 618 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 176 \\ \times 5 \\ \hline \end{array}$
9.	$\begin{array}{r} 830 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 731 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 138 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 673 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 469 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 869 \\ \times 4 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 54

My score: _____

Multiplication

×	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

5 → Find the 5 at the left.

×6 → Find the 6 at the top.

30 ← The product is named where the 5-row and 6-column meet.

7 → Find the ____ at the left.

×9 → Find the ____ at the top.

63 ← The product is named where the 7-row and 9-column meet.

Multiply.

- | | | | | | | | | |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> | <i>f</i> | <i>g</i> | <i>h</i> |
| 1. | 6
×1
— | 7
×8
— | 8
×9
— | 9
×0
— | 7
×7
— | 6
×7
— | 7
×1
— | 4
×6
— |
| 2. | 9
×9
— | 6
×2
— | 7
×6
— | 9
×1
— | 8
×1
— | 6
×8
— | 8
×8
— | 3
×7
— |
| 3. | 8
×0
— | 7
×5
— | 6
×0
— | 9
×2
— | 8
×7
— | 6
×9
— | 7
×0
— | 4
×7
— |
| 4. | 5
×6
— | 9
×3
— | 7
×4
— | 6
×3
— | 9
×4
— | 4
×8
— | 8
×6
— | 3
×6
— |
| 5. | 7
×9
— | 5
×7
— | 5
×8
— | 8
×5
— | 6
×4
— | 7
×3
— | 9
×5
— | 2
×6
— |
| 6. | 7
×2
— | 8
×4
— | 9
×6
— | 9
×7
— | 4
×9
— | 6
×5
— | 9
×8
— | 2
×8
— |
| 7. | 8
×3
— | 5
×9
— | 3
×8
— | 8
×2
— | 3
×9
— | 2
×7
— | 6
×6
— | 2
×9
— |

Check your answers. Record your score.

Perfect score: 56

My score: _____

Problems

Solve each problem.

1. Last week Tommy's father worked five 8-hour shifts. How many hours did he work last week?

He worked _____ shifts.

There were _____ hours in each shift.

He worked _____ hours last week.

2. A certain factory operates two 8-hour shifts each day. How many hours does the factory operate each day?

There are _____ shifts.

There are _____ hours in each shift.

The factory operates _____ hours each day.

3. It takes the clean-up crew 4 hours to clean the factory after each day's work. How many hours will the clean-up crew work during a 5-day week?

The clean-up crew works _____ hours a day.

They work _____ days a week.

The clean-up crew works _____ hours a week.

4. Gloria's mother works 5 hours each day and 5 days each week. How many hours does she work each week?

She works _____ hours each week.

5. The plant engineer figures that it costs the company 5 dollars to operate a certain machine for an hour. How much will it cost the company to operate that machine for 6 hours?

It will cost _____ dollars to operate that machine for 6 hours.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 11

My score: _____

Multiplication

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 40 \\ \times 2 \\ \hline 80 \end{array}$$

$2 \times 4 = 8, \text{ so } 2 \times 40 = \underline{80}.$

$3 \times 2 = 6, \text{ so } 3 \times 20 = \underline{\quad\quad\quad}.$

$$\begin{array}{r} 43 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 2 \\ \hline 6 \end{array}$$

$2 \times 3 = \underline{\quad\quad\quad}$

$$\begin{array}{r} 43 \\ \times 2 \\ \hline 86 \end{array}$$

$2 \times 40 = \underline{\quad\quad\quad}$

Multiply.

$$\begin{array}{r} a \\ 1. \quad 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 30 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 2 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 20 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 30 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 11 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 32 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 12 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 11 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 23 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems



Solve each problem.

1. There are 12 packages of peanuts in each box. How many packages of peanuts are there in the boxes shown above?

There are _____ packages in each box.

There are _____ boxes of peanuts.

There are _____ packages in all.

2. There are 24 candy bars in each box. How many candy bars are there in the boxes shown above?

There are _____ candy bars in each box.

There are _____ boxes of candy bars.

There are _____ candy bars in all.

3. There are 12 mint sticks in a dozen. How many mint sticks are there in each of the boxes shown above?

There are _____ mint sticks in each of the boxes.

4. There are 12 suckers in each box. How many suckers are there in the boxes shown above?

There are _____ suckers in all.

Check your answers. Record your score.

Perfect score: 8 My score: _____

Multiplication

$$\begin{array}{r} 78 \\ \times 3 \\ \hline \end{array}$$

$$3 \times 8 = 24 = 20 + 4$$

$$\begin{array}{r} 78 \\ \times 3 \\ \hline 4 \end{array}$$

$$3 \times 70 = 210$$

$$210 + 20 = 230 = 200 + 30$$

$$\begin{array}{r} 78 \\ \times 3 \\ \hline 234 \end{array}$$

4 is recorded as _____ ones.

30 is recorded as _____ tens.

20 is shown as _____ tens in the tens column.

200 is recorded as _____ hundreds.

Multiply.

a

$$\begin{array}{r} 1. \quad 28 \\ \times 2 \\ \hline \end{array}$$

b

$$\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$$

c

$$\begin{array}{r} 25 \\ \times 3 \\ \hline \end{array}$$

d

$$\begin{array}{r} 16 \\ \times 6 \\ \hline \end{array}$$

e

$$\begin{array}{r} 19 \\ \times 5 \\ \hline \end{array}$$

f

$$\begin{array}{r} 37 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 14 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 53 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 92 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 73 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 72 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 83 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 4 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 42

My score: _____

Problems

Solve each problem.

1. A bottle of Biggie Soda contains 12 fluid ounces. How many fluid ounces are in 6 such bottles? 1.

There are _____ fluid ounces in each bottle.

There are _____ bottles.

There are _____ fluid ounces in 6 bottles.

2. Mr. Long drives 14 miles to work each day. He works 6 days a week. How far does he drive to work each week? 2.

He drives _____ miles each day.

He works _____ days each week.

He drives _____ miles each week.

3. A case contains 24 cans. How many cans will be in 6 such cases? 3.

Each case contains _____ cans.

There are _____ cases.

There are _____ cans in 6 cases.

4. The Acme Salt Company shipped 8 sacks of salt to the Sour Pickle Company. Each sack of salt weighed 72 pounds. What was the weight of the shipment? 4.

The total weight of the shipment was _____ pounds.

5. A train can travel 62 miles an hour. How far can it travel in 4 hours? 5.

The train can travel _____ miles in 4 hours.

Check your answers. Record your score.

Perfect score: 11

My score: _____

Multiplication

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 400 \\ \times 6 \\ \hline 2400 \end{array}$$

$$6 \times 4 = 24, \text{ so} \\ 6 \times 400 = \underline{\hspace{2cm}}$$

$$4 \times 2 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 682 \\ \times 4 \\ \hline 8 \end{array}$$

$$4 \times 80 = 320$$

$$320 = 300 + \underline{\hspace{2cm}}$$

$$4 \times 600 = 2400$$

$$2400 + 300 = 2700 = 2000 + \underline{\hspace{2cm}}$$

$$\begin{array}{r} 682 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 682 \\ \times 4 \\ \hline 2728 \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 1. \quad 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 300 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 500 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 600 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 18 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 200 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 218 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 700 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 721 \\ \times 4 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 3. \quad 321 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 423 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 212 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 349 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 327 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 182 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 272 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 191 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 912 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 711 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 156 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 238 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 807 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 413 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 421 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 987 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 478 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 678 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 727 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 594 \\ \times 5 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 32

My score: _____

Problems

Solve each problem.

1. An airplane can carry 183 passengers. How many passengers could 5 such airplanes carry?

They could carry _____ passengers.

2. The school ordered 7 sets of books. There are 125 books in each set. How many books were ordered?

_____ books were ordered.

3. Each family in a building was given 4 keys. There were 263 families in the building. How many keys were given out?

_____ keys were given out.

4. Each pupil receives 2 cartons of milk a day. There are 912 pupils in the school. How many cartons of milk will be needed?

_____ cartons of milk will be needed.

5. There are 217 apartments in Jane's building. Each apartment has 6 windows. How many windows are there in all?

There are _____ windows in all.

6. A certain baseball player has made at least 165 base hits in each of the last 5 years. What is the least number of base hits he could have made during that period?

He made at least _____ base hits.

7. Carlos delivers 128 papers each day. How many papers will he deliver in 6 days?

He will deliver _____ papers in 6 days.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7

My score: _____

Multiplication

Multiply.

$$\begin{array}{r} a \\ 1. \quad 11 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 32 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 21 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 32 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 24 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 23 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 13 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 72 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 66 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 5 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 5. \quad 214 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 231 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 210 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 224 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 115 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 117 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 131 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 394 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 121 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 732 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 912 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 610 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 157 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 235 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 137 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 406 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 613 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 527 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 671 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 430 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 941 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 483 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 675 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 729 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 436 \\ \times 7 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 49

My score: _____

Problems

Solve each problem.

1. Each side of a baseball diamond is 90 feet in length. How far is it around the baseball diamond?

It is _____ feet around the diamond.

2. Lois practices her flute 35 minutes each day. How many minutes does she practice during a week?

She practices _____ minutes each week.

3. A certain light fixture contains six 75-watt light bulbs. When all the bulbs are on, how many watts are being used?

The 6 bulbs are using _____ watts.

4. A bus fare is 45 cents. What is the cost of 2 fares?

The cost is _____ cents.

5. An aircraft carrier is as long as 3 football fields. A football field is 360 feet long. How long is the aircraft carrier?

It is _____ feet long.

6. A shipment has 5 boxes. Each box weighs 125 pounds. What is the weight of the shipment?

The total weight is _____ pounds.

7. A certain airliner cruises at 635 miles per hour. How far would the airliner travel in 4 hours at that speed?

It would travel _____ miles.

8. A certain machine can produce 265 items an hour. At this rate, how many items can be produced in 8 hours?

_____ items can be produced.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8 My score: _____

TEST—Multiplication

Multiply.

$$\begin{array}{r} a \\ 1. \ 30 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 20 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 10 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 40 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 30 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 10 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \ 32 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \ 12 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \ 60 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \ 72 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 6. \ 432 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 112 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 216 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 113 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 103 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \ 131 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 282 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 711 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 612 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 932 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \ 137 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 124 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 513 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 306 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 417 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \ 521 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 941 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 567 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 439 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 857 \\ \times 6 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 50

My score: _____

PRE-TEST—Multiplication

Multiply.

- | | | | | | | |
|----|--|--|--|--|--|--|
| | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> | <i>f</i> |
| 1. | $\begin{array}{r} 32 \\ \times 20 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \times 30 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ \times 70 \\ \hline \end{array}$ | $\begin{array}{r} 64 \\ \times 40 \\ \hline \end{array}$ | $\begin{array}{r} 49 \\ \times 80 \\ \hline \end{array}$ | $\begin{array}{r} 27 \\ \times 90 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 43 \\ \times 21 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \times 32 \\ \hline \end{array}$ | $\begin{array}{r} 34 \\ \times 22 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \times 39 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ \times 48 \\ \hline \end{array}$ | $\begin{array}{r} 32 \\ \times 37 \\ \hline \end{array}$ |
| 3. | $\begin{array}{r} 37 \\ \times 61 \\ \hline \end{array}$ | $\begin{array}{r} 53 \\ \times 41 \\ \hline \end{array}$ | $\begin{array}{r} 38 \\ \times 82 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ \times 56 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ \times 68 \\ \hline \end{array}$ | $\begin{array}{r} 76 \\ \times 54 \\ \hline \end{array}$ |

Multiply.

- | | | | | | |
|----|---|---|---|---|---|
| | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> |
| 4. | $\begin{array}{r} 402 \\ \times 21 \\ \hline \end{array}$ | $\begin{array}{r} 320 \\ \times 32 \\ \hline \end{array}$ | $\begin{array}{r} 312 \\ \times 38 \\ \hline \end{array}$ | $\begin{array}{r} 524 \\ \times 17 \\ \hline \end{array}$ | $\begin{array}{r} 423 \\ \times 29 \\ \hline \end{array}$ |
| 5. | $\begin{array}{r} 624 \\ \times 61 \\ \hline \end{array}$ | $\begin{array}{r} 213 \\ \times 53 \\ \hline \end{array}$ | $\begin{array}{r} 431 \\ \times 82 \\ \hline \end{array}$ | $\begin{array}{r} 426 \\ \times 57 \\ \hline \end{array}$ | $\begin{array}{r} 834 \\ \times 68 \\ \hline \end{array}$ |

Check your answers. Record your score.

Perfect score: 28

My score: _____

NAME _____

Multiplication

$$\begin{array}{r} 21 \\ \times 3 \\ \hline 63 \end{array}$$

$3 \times 21 = 63$, so

$30 \times 21 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 21 \\ \times 34 \\ \hline 84 \\ \uparrow \end{array}$$

$4 \times 21 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 21 \\ \times 34 \\ \hline 84 \\ 630 \\ \uparrow \end{array}$$

$30 \times 21 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 21 \\ \times 34 \\ \hline 84 \\ 630 \\ \hline 714 \\ \uparrow \end{array}$$

$84 + 630 = \underline{\hspace{2cm}}$

Multiply.

a

$$\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$$

b

$$\begin{array}{r} 13 \\ \times 30 \\ \hline \end{array}$$

c

$$\begin{array}{r} 43 \\ \times 2 \\ \hline \end{array}$$

d

$$\begin{array}{r} 43 \\ \times 20 \\ \hline \end{array}$$

e

$$\begin{array}{r} 32 \\ \times 20 \\ \hline \end{array}$$

f

$$\begin{array}{r} 23 \\ \times 30 \\ \hline \end{array}$$

2. $\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$

$$\begin{array}{r} 34 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 23 \\ \hline \end{array}$$

3. $\begin{array}{r} 21 \\ \times 42 \\ \hline \end{array}$

$$\begin{array}{r} 33 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 32 \\ \hline \end{array}$$

4. $\begin{array}{r} 33 \\ \times 23 \\ \hline \end{array}$

$$\begin{array}{r} 22 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 21 \\ \hline \end{array}$$

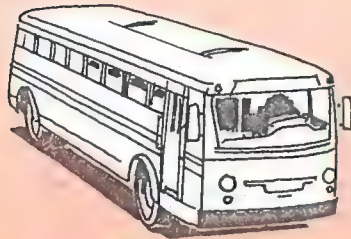
$$\begin{array}{r} 11 \\ \times 94 \\ \hline \end{array}$$

Check your answers. Record your score.

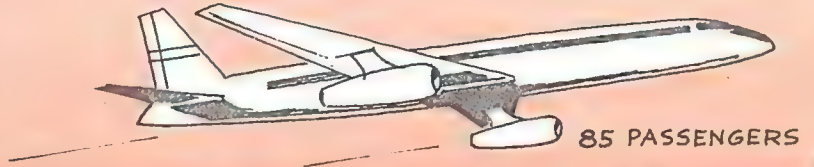
Perfect score: 24

My score: _____

Problems



44 PASSENGERS



85 PASSENGERS

Solve each problem.

1. What is the greatest number of passengers that can ride on 12 buses like the one shown above?

Each bus can carry _____ passengers.

There are _____ buses.

_____ passengers can ride on the buses.

2. There are 11 cars in the train shown above. How many passengers can ride on the train?

Each car can carry _____ passengers.

There are _____ passenger cars.

_____ passengers can ride on the train.

3. There are 11 outgoing flights using planes like the one shown above. What is the greatest number of passengers that can be on these flights?

There can be _____ passengers.

4. A jet plane uses 21 gallons of fuel each minute. How many gallons will it use in 24 minutes?

_____ gallons will be used.

1.

2.

3.

4.

Check your answers. Record your score.

Perfect score: 8

My score: _____

NAME _____

Multiplication

$$\begin{array}{r} 56 \\ \times 4 \\ \hline 224 \end{array}$$

$$\begin{array}{r} 56 \\ \times 40 \\ \hline 2240 \end{array}$$

$4 \times 56 = 224$, so

$40 \times 56 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 47 \\ \times 32 \\ \hline 94 \end{array}$$

$2 \times 47 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 47 \\ \times 32 \\ \hline 94 \\ 1410 \end{array}$$

$30 \times 47 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 47 \\ \times 32 \\ \hline 94 \\ 1410 \\ \hline 1504 \end{array}$$

$94 + 1410 = \underline{\hspace{2cm}}$

Multiply.

$$\begin{array}{r} a \\ 1. \quad 65 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 65 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 37 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 37 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 64 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 75 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 57 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 16 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 83 \\ \times 91 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 52 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 76 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ \times 94 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 85 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 86 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 24

My score: _____

Problems

Solve each problem.

1. A school bus can carry 66 pupils. How many pupils can ride on 12 such buses? 1.

_____ pupils can ride on 12 buses.

2. At 55 miles per hour, how far can a train travel in 12 hours? 2.

It could travel _____ miles.

3. A certain machine can produce 45 items per minute. At that rate, how many items can the machine produce in 15 minutes? 3.

It can produce _____ items.

4. A grocer purchased 18 cases of canned goods. There are 24 cans in each case. How many cans were purchased? 4.

_____ cans were purchased.

5. A photographer purchased 36 rolls of film. Twelve pictures can be made from each roll. How many pictures can be made with the film purchased? 5.

_____ pictures can be made.

6. Mr. Johnson works 44 hours each week. How many hours will he work in 13 weeks? 6.

He will work _____ hours.

7. At 60 miles an hour a car travels 88 feet per second. At this speed how far will a car travel in 25 seconds? 7.

It will travel _____ feet.

8. There are 24 hours in a day. How many hours are there in 14 days? 8.

There are _____ hours in 14 days.

Check your answers. Record your score.

Perfect score: 8 My score: _____

NAME _____

Multiplication

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 24 \\ \times 20 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 30 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 40 \\ \hline \end{array}$	$\begin{array}{r} 56 \\ \times 20 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ \times 60 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ \times 70 \\ \hline \end{array}$

2.	$\begin{array}{r} 42 \\ \times 21 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 23 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 42 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 13 \\ \hline \end{array}$	$\begin{array}{r} 33 \\ \times 23 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ \times 22 \\ \hline \end{array}$
----	--	--	--	--	--	--

3.	$\begin{array}{r} 43 \\ \times 25 \\ \hline \end{array}$	$\begin{array}{r} 87 \\ \times 17 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ \times 25 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 28 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 48 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 39 \\ \hline \end{array}$
----	--	--	--	--	--	--

4.	$\begin{array}{r} 54 \\ \times 71 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 72 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 63 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ \times 82 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ \times 51 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ \times 92 \\ \hline \end{array}$
----	--	--	--	--	--	--

5.	$\begin{array}{r} 68 \\ \times 73 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ \times 58 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ \times 86 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ \times 94 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ \times 48 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ \times 59 \\ \hline \end{array}$
----	--	--	--	--	--	--

Check your answers. Record your score.

Perfect score: 30

My score: _____

Problems

Solve each problem.

1. Mrs. Carter can type 55 words a minute. How many words can she type in 15 minutes?

She can type _____ words.

2. A machine puts caps on bottles at a rate of 96 per minute. At that rate, how many bottles can be capped in 25 minutes?

_____ bottles can be capped in 25 minutes.

3. Mr. Oliver travels 28 miles getting to and from work each day. How many miles will he travel in 22 working days?

He would travel _____ miles.

4. There are 48 thumbtacks in a box. How many are there in 15 boxes?

There are _____ thumbtacks.

5. There are 24 cars on a train. Suppose 66 passengers can ride in each car. How many passengers can ride on the train?

There can be _____ passengers in all.

6. Carlos delivers 75 papers each day. How many papers will he deliver in 14 days?

He will deliver _____ papers.

7. A new building is to be 16 stories high. There are to be 14 feet for each story. How high will the building be?

The building will be _____ feet high.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7

My score: _____

NAME _____

Multiplication

$$\begin{array}{r} 624 \\ \times 2 \\ \hline 1248 \end{array}$$

$$\begin{array}{r} 624 \\ \times 20 \\ \hline 12480 \end{array}$$

$2 \times 624 = 1248$, so

$20 \times 624 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 512 \\ \times 23 \\ \hline 1536 \end{array}$$

$$\begin{array}{r} 512 \\ \times 23 \\ \hline 1536 \\ 10240 \end{array}$$

$$\begin{array}{r} 512 \\ \times 23 \\ \hline 1536 \\ 10240 \\ \hline 11776 \end{array}$$

$3 \times 512 = \underline{\hspace{2cm}}$

$20 \times 512 = \underline{\hspace{2cm}}$

$1536 + 10240 = \underline{\hspace{2cm}}$

Multiply.

$$\begin{array}{r} a \\ 1. \quad 615 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 615 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 728 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 728 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 555 \\ \times 60 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 783 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 132 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 132 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 132 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 323 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 323 \\ \times 60 \\ \hline \end{array}$$

$$\begin{array}{r} 323 \\ \times 63 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 3. \quad 212 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 423 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 121 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 321 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 412 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 324 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 343 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} 429 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 749 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} 476 \\ \times 83 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 22

My score: _____

Problems

Solve each problem.

1. Each of 24 workers is to deliver 144 circulars.
How many circulars are to be delivered in all?

_____ circulars are to be delivered.

2. Each hour 225 pictures can be developed. How
many pictures can be developed in 12 hours?

_____ pictures can be developed.

3. One section of a Sports Arena has 24 rows of
seats. There are 125 seats in each row. How many
seats are there in that section?

There are _____ seats in that section.

4. A shipment consists of 145 cases. Each case weighs
65 pounds. What is the weight of the shipment?

The total weight is _____ pounds.

5. James sells 165 papers a day. How many papers
will he sell in 28 days?

He will sell _____ papers.

6. A jet cruises at 575 miles an hour. At that rate,
how many miles will it travel in 12 hours?

It will travel _____ miles.

7. A certain desk weighs 135 pounds. How many
pounds would 15 of the desks weigh?

They would weigh _____ pounds.

8. Suppose a player averages 165 base hits a season.
How many base hits will he make in 15 seasons?

He will make _____ base hits.

Check your answers. Record your score.

Perfect score: 8 My score: _____

Multiplication

Multiply.

$$\begin{array}{r} a \\ 1. \quad 54 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 75 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 63 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 27 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 84 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} f \\ 67 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 69 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 36 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 3. \quad 304 \\ \times 57 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 540 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 327 \\ \times 48 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 428 \\ \times 76 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ 548 \\ \times 91 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 924 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 286 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 478 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 375 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} 721 \\ \times 52 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 131 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 937 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 205 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 240 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} 121 \\ \times 57 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 27

My score: _____

Problems

Solve each problem.

1. There are 24 slices of bread in a loaf. How many slices are there in 25 loaves?

There are _____ slices.

2. There are 125 sheets in a giant pack of notebook paper. How many sheets are there in 12 giant packs?

There are _____ sheets.

3. There are 12 eggs in a dozen. How many eggs are there in 16 dozen?

There are _____ eggs in 16 dozen.

4. There are 180 eggs packed in a case. How many eggs are there in 24 cases?

There are _____ eggs.

5. Fifty stamps are needed to fill each page of a stamp book. The book contains 24 pages. How many stamps are needed to fill the book?

_____ stamps are needed.

6. There are 328 pages in each of the 16 volumes of an encyclopedia. How many pages are there in all?

There are _____ pages in all.

7. Marsha practices the piano 35 minutes each day. How many minutes will she practice in 14 days?

She will practice _____ minutes.

8. The average weight of the 11 starting players on the Webster High School football team is 173 pounds. What is the total weight of these players?

The total weight is _____ pounds.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8

My score: _____

TEST—Multiplication

Multiply.

$$\begin{array}{r} a \\ 1. \quad 21 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ \quad 23 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ \quad 34 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ \quad 34 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} e \\ \quad 23 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 63 \\ \times 51 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 42 \\ \times 72 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 23 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 72 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 56 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 314 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 123 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 302 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 527 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 607 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 324 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 342 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 312 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 321 \\ \times 73 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 423 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 682 \\ \times 57 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 428 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 357 \\ \times 85 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 537 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} \quad 729 \\ \times 84 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 25

My score: _____

PRE-TEST—Multiplication

Multiply.

$$\begin{array}{r} \text{a} \\ 1. \quad 5000 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b} \\ 2107 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c} \\ 3251 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \\ 4731 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 7131 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7652 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2121 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 6742 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 4132 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} 8767 \\ \times 71 \\ \hline \end{array}$$

$$\begin{array}{r} 5264 \\ \times 69 \\ \hline \end{array}$$

$$\begin{array}{r} 4675 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 321 \\ \times 300 \\ \hline \end{array}$$

$$\begin{array}{r} 567 \\ \times 400 \\ \hline \end{array}$$

$$\begin{array}{r} 312 \\ \times 320 \\ \hline \end{array}$$

$$\begin{array}{r} 432 \\ \times 207 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 423 \\ \times 912 \\ \hline \end{array}$$

$$\begin{array}{r} 413 \\ \times 792 \\ \hline \end{array}$$

$$\begin{array}{r} 729 \\ \times 816 \\ \hline \end{array}$$

$$\begin{array}{r} 875 \\ \times 438 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 20

My score: _____

Multiplication

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 6000 \\ \times 4 \\ \hline 24000 \end{array}$$

$4 \times 6 = 24$, so

$4 \times 6000 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 6132 \\ \times 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 6132 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 6132 \\ \times 4 \\ \hline 528 \end{array}$$

$$\begin{array}{r} 6132 \\ \times 4 \\ \hline 24528 \end{array}$$

$4 \times 2 = \underline{\hspace{1cm}}$
 $4 \times 30 = 120$
 $120 = 100 + \underline{\hspace{1cm}}$
 $4 \times 100 = 400$
 $400 + 100 = \underline{\hspace{2cm}}$
 $4 \times 6000 = 24000$
 $24000 = 20000 + \underline{\hspace{2cm}}$

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 3000 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 2000 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 3000 \\ \times 3 \\ \hline \end{array}$

2.	$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 7000 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 8000 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 9000 \\ \times 8 \\ \hline \end{array}$
----	--	---	--	---	--	---

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
3.	$\begin{array}{r} 3412 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 2018 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 1071 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 2731 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 8021 \\ \times 4 \\ \hline \end{array}$

4.	$\begin{array}{r} 1049 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 5107 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 1614 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1751 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 5401 \\ \times 9 \\ \hline \end{array}$
----	---	---	---	---	---

5.	$\begin{array}{r} 5671 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 5407 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 4758 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 7034 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 6752 \\ \times 8 \\ \hline \end{array}$
----	---	---	---	---	---

Check your answers. Record your score.

Perfect score: 27

My score: _____

Problems

Solve each problem.

1. Each tank truck can haul 5,000 gallons. How many gallons can be hauled by 9 such trucks?

_____ gallons can be hauled.

2. In each of 7 communities a company distributed 2,500 samples of a new product. How many samples were distributed in all?

_____ samples were distributed.

3. Eight autos are on a freight car. Each auto weighs 4,250 pounds. What is the total weight of the autos on the freight car?

The total weight is _____ pounds.

4. The rail distance between St. Louis and San Francisco is 2,134 miles. How many miles does a train travel when it makes a run from St. Louis to San Francisco and back?

_____ miles will be traveled.

5. An airline hostess made 5 flights last week. The average length of each flight was 1,047 miles. How many miles did the hostess travel on those flights?

She traveled _____ miles.

6. There are 6 machines stored in a warehouse. Each machine weighs 1,356 pounds. What is the total weight of the machines?

The total weight is _____ pounds.

7. The West Side News Agency distributes 6,525 newspapers daily. How many newspapers will be distributed each week? (1 week = 7 days)

_____ newspapers will be distributed.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7 My score: _____

NAME _____

Multiplication

$$\begin{array}{r} 3124 \\ \times 2 \\ \hline 6248 \end{array}$$

$$\begin{array}{r} 3124 \\ \times 20 \\ \hline 62480 \end{array}$$

$2 \times 3124 = 6248$, so

$20 \times 3124 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 5372 \\ \times 38 \\ \hline 42976 \end{array}$$

$8 \times 5372 = \underline{\hspace{2cm}}$

$30 \times 5372 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 5372 \\ \times 38 \\ \hline 42976 \\ 161160 \end{array}$$

$42976 + 161160 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 5372 \\ \times 38 \\ \hline 42976 \\ 161160 \\ \hline 204136 \end{array}$$

Multiply.

$$\begin{array}{r} a \\ 1. \quad 4000 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 4000 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 5000 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 5000 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 2000 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} 3000 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 7000 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 6000 \\ \times 90 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 2031 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 3132 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 2120 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 2314 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 4312 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 8752 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 4321 \\ \times 72 \\ \hline \end{array}$$

$$\begin{array}{r} 3012 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 7654 \\ \times 81 \\ \hline \end{array}$$

$$\begin{array}{r} 7542 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} 8075 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} 6209 \\ \times 58 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 20

My score: _____

Problems

Solve each problem:

1. Each day 7,500 tons of ore can be processed. How many tons can be processed in 25 days?

_____ tons of ore can be processed.

2. One of the large ocean liners can carry 2,047 passengers. What is the maximum number of passengers the liner can carry on 25 voyages?

There could be _____ passengers.

3. A certain computer can perform 9,456 computations per second. How many computations can be performed in 1 minute (60 seconds)?

_____ computations can be performed.

4. A shipment consists of 1,072 cases of merchandise. Each case weighs 35 pounds. What is the total weight of the shipment?

The total weight is _____ pounds.

5. The Bulls played 82 basketball games last year. The average attendance at each game was 6,547. What was the total attendance?

The total attendance was _____.

6. The average number of miles a taxi is driven each month is 1,356 miles. At that rate, how many miles will a taxi be driven in 1 year? (1 year = 12 months)

_____ miles will be driven.

7. Each day 2,225 cars can be assembled. How many cars can be assembled in 23 days?

_____ cars can be assembled.

8. Suppose each car weighs 4,250 pounds. What is the total weight of 25 cars?

The total weight is _____ pounds.

Check your answers. Record your score.

Perfect score: 8

My score: _____

NAME _____

Multiplication

Multiply.

a

$$\begin{array}{r} 1. \quad 3412 \\ \times 2 \\ \hline \end{array}$$

b

$$\begin{array}{r} 3127 \\ \times 3 \\ \hline \end{array}$$

c

$$\begin{array}{r} 8101 \\ \times 5 \\ \hline \end{array}$$

d

$$\begin{array}{r} 2421 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 1307 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8172 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9701 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7061 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 1567 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4063 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3579 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8759 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 2301 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 4753 \\ \times 71 \\ \hline \end{array}$$

$$\begin{array}{r} 4321 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 3012 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 5324 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 2321 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} 4032 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 1202 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5678 \\ \times 57 \\ \hline \end{array}$$

$$\begin{array}{r} 9305 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 6078 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} 8349 \\ \times 74 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 24

My score: _____

Problems

Solve each problem.

1. Last week an average of 5,112 books a day was checked out of the city library. The library is open 6 days a week. How many books were checked out last week?

_____ books were checked out.

2. Suppose books continue to be checked out at the rate indicated in problem 1. How many books will be checked out in 26 days?

_____ books would be checked out.

3. An auto dealer hopes to sell twice as many cars this year as last year. He sold 1,056 cars last year. How many cars does the dealer hope to sell this year?

The dealer hopes to sell _____ cars.

4. The Humphreys drive an average of 1,245 miles each month. How many miles will they drive in a year? (1 year = 12 months)

They will drive _____ miles.

5. The supermarket sells an average of 1,028 dozen eggs each week. How many dozen eggs will be sold in 6 weeks?

_____ dozen eggs will be sold.

6. The Record Shoppe sells an average of 1,435 records each week. How many records will be sold in 52 weeks?

_____ records will be sold.

7. A certain machine can produce 2,154 items an hour. How many items can be produced in 8 hours?

_____ items can be produced.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7

My score: _____

NAME _____

Multiplication

$\begin{array}{r} 512 \\ \times 3 \\ \hline 1536 \end{array}$	$\begin{array}{r} 512 \\ \times 300 \\ \hline 153600 \end{array}$	$\begin{array}{r} 512 \\ \times 324 \\ \hline 2048 \\ \uparrow \end{array}$	$\begin{array}{r} 512 \\ \times 324 \\ \hline 2048 \\ 10240 \\ \uparrow \end{array}$	$\begin{array}{r} 512 \\ \times 324 \\ \hline 2048 \\ 10240 \\ 153600 \\ \uparrow \end{array}$	$\begin{array}{r} 512 \\ \times 324 \\ \hline 2048 \\ 10240 \\ 153600 \\ 165888 \\ \uparrow \end{array}$
$3 \times 512 = 1536$, so $300 \times 512 = \underline{\hspace{2cm}}$		$4 \times 512 = \underline{\hspace{2cm}}$ $20 \times 512 = \underline{\hspace{2cm}}$ $300 \times 512 = \underline{\hspace{2cm}}$ $2048 + 10240 + 153600 = \underline{\hspace{2cm}}$			

Multiply.

- | | | | | |
|---|--|--|--|--|
| <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> |
| 1. $\begin{array}{r} 213 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 213 \\ \times 300 \\ \hline \end{array}$ | $\begin{array}{r} 324 \\ \times 7 \\ \hline \end{array}$ | $\begin{array}{r} 324 \\ \times 700 \\ \hline \end{array}$ | $\begin{array}{r} 248 \\ \times 900 \\ \hline \end{array}$ |
| 2. $\begin{array}{r} 321 \\ \times 213 \\ \hline \end{array}$ | $\begin{array}{r} 223 \\ \times 239 \\ \hline \end{array}$ | $\begin{array}{r} 342 \\ \times 260 \\ \hline \end{array}$ | $\begin{array}{r} 213 \\ \times 823 \\ \hline \end{array}$ | $\begin{array}{r} 423 \\ \times 257 \\ \hline \end{array}$ |
| 3. $\begin{array}{r} 725 \\ \times 508 \\ \hline \end{array}$ | $\begin{array}{r} 423 \\ \times 672 \\ \hline \end{array}$ | $\begin{array}{r} 709 \\ \times 591 \\ \hline \end{array}$ | $\begin{array}{r} 648 \\ \times 479 \\ \hline \end{array}$ | $\begin{array}{r} 568 \\ \times 986 \\ \hline \end{array}$ |

Check your answers. Record your score.

Perfect score: 15

My score: _____

Problems



Solve each problem.

1. Suppose each passenger on Flight 704 has 100 pounds of luggage. What is the total weight of the luggage?

The total weight is _____ pounds.

2. The average weight of each passenger is 135 pounds. What is the total weight of the passengers on Flight 704?

The total weight is _____ pounds.

3. Each week an airline has 168 flights like Flight 704. What is the maximum number of passengers that can be transported on those flights?

The maximum number of passengers is _____.

4. The air distance from Chicago to New Orleans is 831 miles. An airline had 365 flights between these cities last year. What was the least number of miles traveled on these flights?

The least number of miles was _____ miles.

5. Last year a jetliner was airborne a total of 885 hours. The jetliner averaged 550 miles an hour. How many miles did the jetliner travel last year?

The jetliner traveled _____ miles.

Check your answers. Record your score.

Perfect score: 5

My score: _____

NAME _____

Multiplication

Multiply.

$$\begin{array}{r} \text{1.} \quad \text{\textit{a}} \\ 203 \\ \times 213 \\ \hline \end{array}$$

$$\begin{array}{r} \text{\textit{b}} \\ 143 \\ \times 121 \\ \hline \end{array}$$

$$\begin{array}{r} \text{\textit{c}} \\ 432 \\ \times 128 \\ \hline \end{array}$$

$$\begin{array}{r} \text{\textit{d}} \\ 213 \\ \times 216 \\ \hline \end{array}$$

$$\begin{array}{r} \text{2.} \quad 312 \\ \times 327 \\ \hline \end{array}$$

$$\begin{array}{r} 423 \\ \times 162 \\ \hline \end{array}$$

$$\begin{array}{r} 324 \\ \times 291 \\ \hline \end{array}$$

$$\begin{array}{r} 574 \\ \times 801 \\ \hline \end{array}$$

$$\begin{array}{r} \text{3.} \quad 234 \\ \times 712 \\ \hline \end{array}$$

$$\begin{array}{r} 212 \\ \times 934 \\ \hline \end{array}$$

$$\begin{array}{r} 567 \\ \times 148 \\ \hline \end{array}$$

$$\begin{array}{r} 423 \\ \times 278 \\ \hline \end{array}$$

$$\begin{array}{r} \text{4.} \quad 787 \\ \times 619 \\ \hline \end{array}$$

$$\begin{array}{r} 578 \\ \times 807 \\ \hline \end{array}$$

$$\begin{array}{r} 243 \\ \times 725 \\ \hline \end{array}$$

$$\begin{array}{r} 678 \\ \times 491 \\ \hline \end{array}$$

$$\begin{array}{r} \text{5.} \quad 785 \\ \times 580 \\ \hline \end{array}$$

$$\begin{array}{r} 584 \\ \times 787 \\ \hline \end{array}$$

$$\begin{array}{r} 375 \\ \times 998 \\ \hline \end{array}$$

$$\begin{array}{r} 673 \\ \times 578 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 20

My score: _____

Problems

Solve each problem.

1. Last year a bookstore sold an average of 754 books on each of the 312 days it was open. How many books were sold last year?

_____ books were sold.

2. In one hour, 560 loaves of bread can be baked. How many loaves can be baked in 112 hours?

_____ loaves can be baked.

3. The garment factory can manufacture 960 shirts each day. How many shirts can be manufactured in 260 days?

_____ shirts can be manufactured.

4. Approximately 925 rolls of newsprint are used each week in putting out the daily newspaper. How many rolls of newsprint will be needed in 104 weeks?

_____ rolls of newsprint will be needed.

5. An average of 825 gallons of water are used each hour at the automatic car wash. How many gallons of water will be used in 126 hours?

_____ gallons will be used.

6. There are 112 firemen assigned to each of the city's 108 precincts. How many firemen are there in all?

There are _____ firemen in all.

7. A service station sells an average of 965 gallons of gasoline per day. How many gallons will be sold in 365 days?

_____ gallons will be sold.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7

My score: _____

NAME _____

TEST—Multiplication

Multiply.

$$\begin{array}{r} a \\ 1. \quad 2021 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} b \\ 1107 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} c \\ 4321 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} d \\ 6758 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 1022 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 2121 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 3241 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 3121 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 5264 \\ \times 71 \\ \hline \end{array}$$

$$\begin{array}{r} 2134 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 5768 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 4938 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 324 \\ \times 212 \\ \hline \end{array}$$

$$\begin{array}{r} 243 \\ \times 127 \\ \hline \end{array}$$

$$\begin{array}{r} 321 \\ \times 362 \\ \hline \end{array}$$

$$\begin{array}{r} 212 \\ \times 524 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 584 \\ \times 167 \\ \hline \end{array}$$

$$\begin{array}{r} 778 \\ \times 518 \\ \hline \end{array}$$

$$\begin{array}{r} 432 \\ \times 692 \\ \hline \end{array}$$

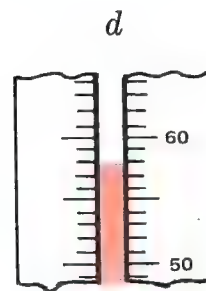
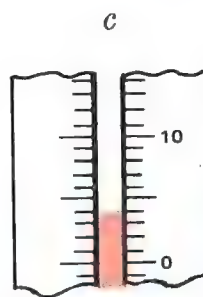
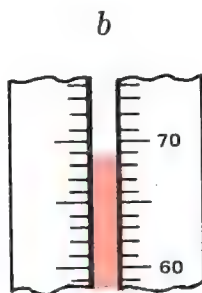
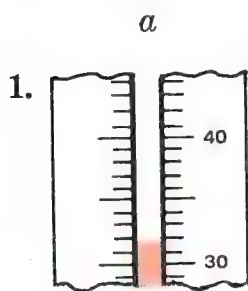
$$\begin{array}{r} 789 \\ \times 694 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 20 My score: _____

PRE-TEST—Temperature, Money, and Roman Numerals

Record the temperature reading shown on each thermometer.



Add or subtract.

a

$$\begin{array}{r} 37\text{¢} \\ +42\text{¢} \\ \hline \end{array}$$

b

$$\begin{array}{r} \$.43 \\ +.64 \\ \hline \end{array}$$

c

$$\begin{array}{r} 17\text{¢} \\ 26\text{¢} \\ +42\text{¢} \\ \hline \end{array}$$

d

$$\begin{array}{r} \$2.75 \\ 6.21 \\ +3.62 \\ \hline \end{array}$$

e

$$\begin{array}{r} \$17.34 \\ 45.87 \\ +25.12 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 79\text{¢} \\ -27\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} \$.83 \\ -.24 \\ \hline \end{array}$$

$$\begin{array}{r} \$4.34 \\ -.72 \\ \hline \end{array}$$

$$\begin{array}{r} \$8.67 \\ -4.89 \\ \hline \end{array}$$

$$\begin{array}{r} \$27.64 \\ -18.69 \\ \hline \end{array}$$

Multiply.

4.

$$\begin{array}{r} 16\text{¢} \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \$.46 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \$2.43 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \$1.17 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \$17.45 \\ \times 8 \\ \hline \end{array}$$

Complete the following as shown.

a

5. XIV = 14

b

XLV = _____

c

LXX = _____

6. XCI = _____

CXX = _____

CCX = _____

7. 23 = XXIII

47 = _____

69 = _____

8. 96 = _____

114 = _____

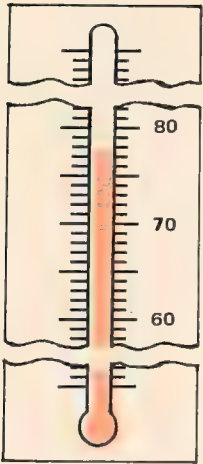
355 = _____

Check your answers. Record your score.

Perfect score: 29

My score: _____

Temperature



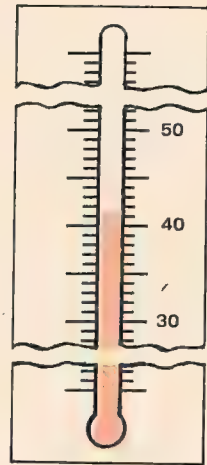
The temperature reading on the thermometer shown at the left is 78 degrees.

78 degrees can be written as 78° .

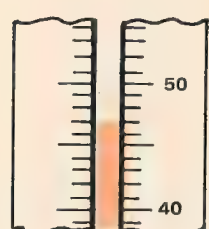
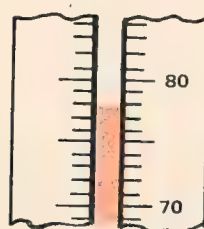
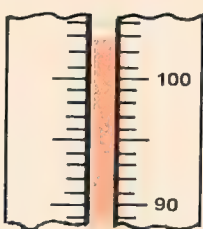
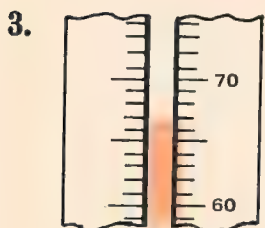
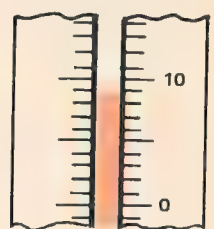
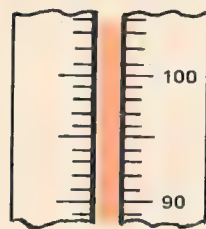
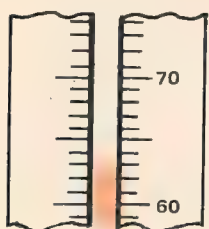
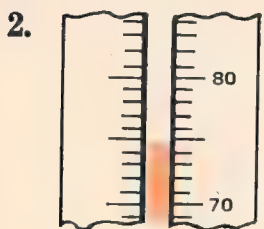
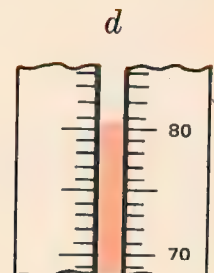
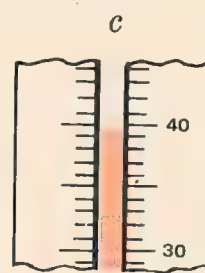
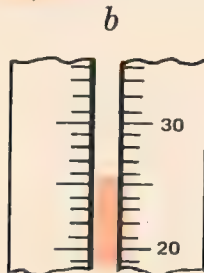
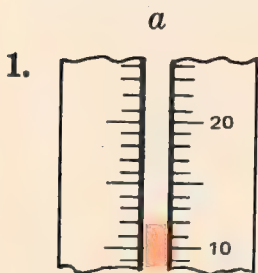
The temperature reading on the thermometer shown at the

right is _____ degrees.

42 degrees can be written as _____.



Record the temperature reading shown on each thermometer.



Check your answers. Record your score.

Perfect score: 12

My score: _____

Problems

Solve each problem.

1. The high temperature for the day was 72 degrees. The low temperature was 48 degrees. What is the difference between these temperatures?

The difference is _____ degrees.

2. The temperature at dawn was 62 degrees. By noon the temperature had risen 16 degrees. What was the temperature at noon?

The temperature at noon was _____ degrees.

3. Water freezes at 32 degrees and boils at 212 degrees. What is the difference between these two temperatures?

The difference is _____ degrees.

4. On June 1 the water temperature at the lake was 48 degrees. During June the water temperature rose 16 degrees. What was the water temperature July 1?

The temperature of the water was _____ degrees.

5. Lead melts at 622 degrees and boils at 2,948 degrees. What is the difference between these two temperatures?

The difference is _____ degrees.

6. Each quart of antifreeze will lower the freezing temperature of a car's cooling system 5 degrees. How much will the freezing temperature be lowered by adding 4 quarts of antifreeze?

It will be lowered _____ degrees.

7. During a normal summer day, the temperature usually rises 35 degrees. The low temperature for a normal summer day is 55 degrees. What would the high temperature be?

The high temperature would be _____ degrees.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7 My score: _____

NAME _____

Money

1 cent = 1¢ or \$.01
 3 cents = 3¢ or \$.03
 65 cents = 65¢ or \$.65
 6 cents = _____ ¢ or \$_____
 98 cents = _____ ¢ or \$_____

1 dollar = 100¢ or \$1.00
 3 dollars and 2 cents = 302¢ or \$3.02
 4 dollars and 59 cents = 459¢ or \$4.59
 6 dollars and 3 cents = _____ ¢ or \$_____
 5 dollars and 72 cents = _____ ¢ or \$_____

Complete the following.

a

b

c

d

1. 5 cents = _____ ¢ 25¢ = \$_____ \$.83 = _____ ¢ \$5.00 = _____ ¢
2. 10 cents = \$_____ 50¢ = \$_____ \$.04 = _____ ¢ 179¢ = \$_____
3. 25 cents = _____ ¢ 75¢ = \$_____ \$.29 = _____ ¢ \$3.47 = _____ ¢
4. 50 cents = \$_____ 10¢ = \$_____ \$2.98 = _____ ¢ 135¢ = \$_____
5. 85 cents = _____ ¢ 95¢ = \$_____ \$3.75 = _____ ¢ \$6.49 = _____ ¢
6. 100 cents = \$_____ 5¢ = \$_____ \$1.49 = _____ ¢ 219¢ = \$_____

Complete the following.

a

b

7. 4 dollars and 8 cents = _____ ¢ \$6.25 = 6 dollars and _____ cents
8. 7 dollars and 63 cents = \$_____ \$3.75 = _____ dollars and 75 cents
9. 3 dollars and 9 cents = _____ ¢ \$7.05 = 7 dollars and _____ cents
10. 6 dollars and 19 cents = \$_____ \$9.65 = _____ dollars and 65 cents
11. 5 dollars and 79 cents = _____ ¢ \$4.19 = _____ dollars and _____ cents
12. 18 dollars and 75 cents = \$_____ \$8.69 = _____ dollars and _____ cents

Check your answers. Record your score.

Perfect score: 38

My score: _____

Money

$$\begin{array}{r} 25 \\ 45 \\ +19 \\ \hline 89 \end{array}$$

$$\begin{array}{r} 25¢ \\ 45¢ \\ +19¢ \\ \hline 89¢ \end{array}$$

$$25 + 45 + 19 = 89, \text{ so}$$

$$25¢ + 45¢ + 19¢ = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 1207 \\ -483 \\ \hline 724 \end{array}$$

$$\begin{array}{r} \$12.07 \\ -4.83 \\ \hline \$7.24 \end{array}$$

$$1207 - 483 = 724, \text{ so}$$

$$\$12.07 - \$4.83 = \underline{\hspace{2cm}}$$

Add or subtract.

a

$$\begin{array}{r} 1. \quad 23¢ \\ +44¢ \\ \hline \end{array}$$

b

$$\begin{array}{r} 47¢ \\ +25¢ \\ \hline \end{array}$$

c

$$\begin{array}{r} \$4.46 \\ +.73 \\ \hline \end{array}$$

d

$$\begin{array}{r} \$5.47 \\ +8.21 \\ \hline \end{array}$$

e

$$\begin{array}{r} \$36.95 \\ +72.02 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 79¢ \\ -23¢ \\ \hline \end{array}$$

$$\begin{array}{r} 56¢ \\ -27¢ \\ \hline \end{array}$$

$$\begin{array}{r} \$1.27 \\ -.53 \\ \hline \end{array}$$

$$\begin{array}{r} \$4.67 \\ -2.89 \\ \hline \end{array}$$

$$\begin{array}{r} \$36.78 \\ -7.99 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 14¢ \\ +91¢ \\ \hline \end{array}$$

$$\begin{array}{r} 26¢ \\ +87¢ \\ \hline \end{array}$$

$$\begin{array}{r} \$5.7 \\ +.68 \\ \hline \end{array}$$

$$\begin{array}{r} \$5.25 \\ +9.46 \\ \hline \end{array}$$

$$\begin{array}{r} \$16.96 \\ +27.45 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 138¢ \\ -61¢ \\ \hline \end{array}$$

$$\begin{array}{r} 142¢ \\ -89¢ \\ \hline \end{array}$$

$$\begin{array}{r} \$2.64 \\ -.57 \\ \hline \end{array}$$

$$\begin{array}{r} \$6.27 \\ -2.89 \\ \hline \end{array}$$

$$\begin{array}{r} \$49.78 \\ -18.89 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 72¢ \\ 59¢ \\ +24¢ \\ \hline \end{array}$$

$$\begin{array}{r} 83¢ \\ 57¢ \\ +26¢ \\ \hline \end{array}$$

$$\begin{array}{r} \$7.5 \\ .65 \\ +.97 \\ \hline \end{array}$$

$$\begin{array}{r} \$1.2 \\ 4.69 \\ +5.87 \\ \hline \end{array}$$

$$\begin{array}{r} \$47.52 \\ 89.25 \\ +67.47 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 246¢ \\ -87¢ \\ \hline \end{array}$$

$$\begin{array}{r} 157¢ \\ -99¢ \\ \hline \end{array}$$

$$\begin{array}{r} \$3.07 \\ -1.85 \\ \hline \end{array}$$

$$\begin{array}{r} \$7.00 \\ -2.48 \\ \hline \end{array}$$

$$\begin{array}{r} \$60.47 \\ -27.59 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 30

My score:

Money

$$\begin{array}{r} 19 \\ \times 4 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 19\text{¢} \\ \times 4 \\ \hline 76\text{¢} \end{array}$$

$$4 \times 19 = 76, \text{ so}$$

$$4 \times 19\text{¢} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 324 \\ \times 46 \\ \hline 1944 \\ 12960 \\ \hline 14904 \end{array}$$

$$\begin{array}{r} \$3.24 \\ \times 46 \\ \hline 1944 \\ 12960 \\ \hline \$149.04 \end{array}$$

$$46 \times 324 = 14904, \text{ so}$$

$$46 \times \$3.24 = \underline{\hspace{2cm}}$$

To find a product such as $4 \times 19\text{¢}$ or $46 \times \$3.24$, multiply as usual.

Include either a ¢ (or a \$ and a decimal point) in the product. Make sure there are two digits to the right of the decimal point in the product.

Multiply.

a

$$\begin{array}{r} 1. \quad 21\text{¢} \\ \times 4 \\ \hline \end{array}$$

b

$$\begin{array}{r} 13\text{¢} \\ \times 5 \\ \hline \end{array}$$

c

$$\begin{array}{r} \$2.6 \\ \times 3 \\ \hline \end{array}$$

d

$$\begin{array}{r} \$1.72 \\ \times 4 \\ \hline \end{array}$$

e

$$\begin{array}{r} \$16.23 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 31\text{¢} \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 52\text{¢} \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \$5.8 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \$2.47 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \$25.79 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 32\text{¢} \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 43\text{¢} \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} \$3.4 \\ \times 52 \\ \hline \end{array}$$

$$\begin{array}{r} \$4.49 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} \$43.75 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 23\text{¢} \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 34\text{¢} \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} \$12.4 \\ \times 102 \\ \hline \end{array}$$

$$\begin{array}{r} \$4.29 \\ \times 317 \\ \hline \end{array}$$

$$\begin{array}{r} \$75.96 \\ \times 44 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 20

My score: _____

Problems

Solve each problem.

1. Mrs. Jackson purchased 4 flower pots at 18 cents each. What was the total cost of the flower pots?

The total cost was _____.

2. Marcia made the following purchases at the grocery store: soap 13¢; fruit 27¢; soup 23¢; and bread 29¢. What was the total cost of her purchases?

The total cost was _____.

3. A quart of motor oil sells for 80¢ at the service station and 59¢ at the discount store. What is the difference between these prices?

The difference is _____.

4. What is the total cost of 8 spark plugs if they cost \$1.19 each?

The total cost is _____.

5. During a four-week period, Mrs. Silver spent the following for groceries: \$27.49; \$33.14; \$29.36; and \$28.76. How much did she spend for groceries during this period?

She spent _____.

6. It costs \$19.75 to go to Norville by train and \$16.95 by bus. What is the difference between these costs?

The difference is _____.

7. What is the cost of 4 tires if each tire costs \$19.89?

The cost is _____.

8. At the ball park a general admission ticket costs \$1.50 and a box seat ticket costs \$3.75. What is the difference between these costs?

The difference is _____.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8

My score: _____

NAME _____

Roman Numerals

Symbol	I	V	X	L	C
Meaning	one	five	ten	fifty	one hundred

$$\text{II} = 1 + 1 \text{ or } 2$$

$$\text{XXX} = 10 + 10 + 10 \text{ or } 30$$

$$\text{IV} = 5 - 1 \text{ or } 4$$

$$\text{VI} = 5 + 1 \text{ or } 6$$

$$\text{XL} = 50 - 10 \text{ or } 40$$

$$\text{LX} = 50 + 10 \text{ or } 60$$

$$\text{XX} = 10 + \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}}$$

$$\text{IX} = 10 - \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}}$$

$$\text{XC} = 100 - \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}}$$

$$\text{CCC} = 100 + 100 + \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}}$$

$$\text{XI} = 10 + \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}}$$

$$\text{CX} = 100 + \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}}$$

Complete the following.

*a**b**c*

1. $\text{VII} = 5 + \underline{\hspace{1cm}} \text{ or } 7$

$\text{XIII} = \underline{\hspace{1cm}} + 3 \text{ or } 13$

$\text{XV} = 10 + \underline{\hspace{1cm}} \text{ or } 15$

2. $\text{XVIII} = 10 + \underline{\hspace{1cm}} \text{ or } 18$

$\text{XXV} = 20 + \underline{\hspace{1cm}} \text{ or } 25$

$\text{XXXIX} = \underline{\hspace{1cm}} + 9 \text{ or } 39$

3. $\text{XLVI} = \underline{\hspace{1cm}} + 6 \text{ or } 46$

$\text{LIX} = 50 + \underline{\hspace{1cm}} \text{ or } 59$

$\text{LXII} = \underline{\hspace{1cm}} + 2 \text{ or } 62$

4. $\text{XCIV} = \underline{\hspace{1cm}} + 4 \text{ or } 94$

$\text{CVII} = 100 + \underline{\hspace{1cm}} \text{ or } 107$

$\text{CCL} = \underline{\hspace{1cm}} + 50 \text{ or } 250$

Complete the following as shown.

*a**b**c**d*

5. $\text{XVII} = \underline{17}$

$\text{XXIV} = \underline{\hspace{1cm}}$

$\text{XXIX} = \underline{\hspace{1cm}}$

$\text{XXXV} = \underline{\hspace{1cm}}$

6. $\text{XLI} = \underline{\hspace{1cm}}$

$\text{LIX} = \underline{\hspace{1cm}}$

$\text{LXIV} = \underline{\hspace{1cm}}$

$\text{XCIX} = \underline{\hspace{1cm}}$

7. $\text{CXVI} = \underline{\hspace{1cm}}$

$\text{CLX} = \underline{\hspace{1cm}}$

$\text{CC} = \underline{\hspace{1cm}}$

$\text{CCXLV} = \underline{\hspace{1cm}}$

Write a Roman numeral for each of the following.

*a**b**c*

8. $8 = \underline{\hspace{1cm}}$

$12 = \underline{\hspace{1cm}}$

$14 = \underline{\hspace{1cm}}$

9. $26 = \underline{\hspace{1cm}}$

$29 = \underline{\hspace{1cm}}$

$35 = \underline{\hspace{1cm}}$

10. $44 = \underline{\hspace{1cm}}$

$61 = \underline{\hspace{1cm}}$

$74 = \underline{\hspace{1cm}}$

11. $96 = \underline{\hspace{1cm}}$

$136 = \underline{\hspace{1cm}}$

$325 = \underline{\hspace{1cm}}$

Check your answers. Record your score.

Perfect score: 35

My score: _____

Problems

Solve each problem.

1. Cherise purchased a pair of hose for \$2.98, a skirt for \$7.95, and a blouse for \$3.19. What was the total amount of her purchases?

The total amount was _____.

2. How much would 5 shirts cost at \$4.95 each?

The shirts would cost _____.

3. The high temperature for the day was 76 degrees and the low temperature was 52 degrees. What is the difference between these two temperatures?

The difference is _____ degrees.

4. A painter used 4 gallons of paint to decorate an apartment. At \$8.95 a gallon, what was the cost of the paint?

The cost was _____.

5. The temperature at sundown was 37 degrees. It had dropped 16 degrees by midnight. What was the temperature then?

The temperature at midnight was _____ degrees.

6. To pay for an installment purchase, Mr. Collins agreed to pay \$26.56 each month for 24 months. What is the total amount of the payments?

The total amount of the payments is _____.

7. A suit costs \$69.88 and a sports coat costs \$29.95. What is the difference between these costs?

The difference in costs is _____.

8. Dawn purchased a record album for \$1.98 and some stationery for 79¢. What was the total amount of her purchases?

The total amount was _____.

1.

2.

3.

4.

5.

6.

7.

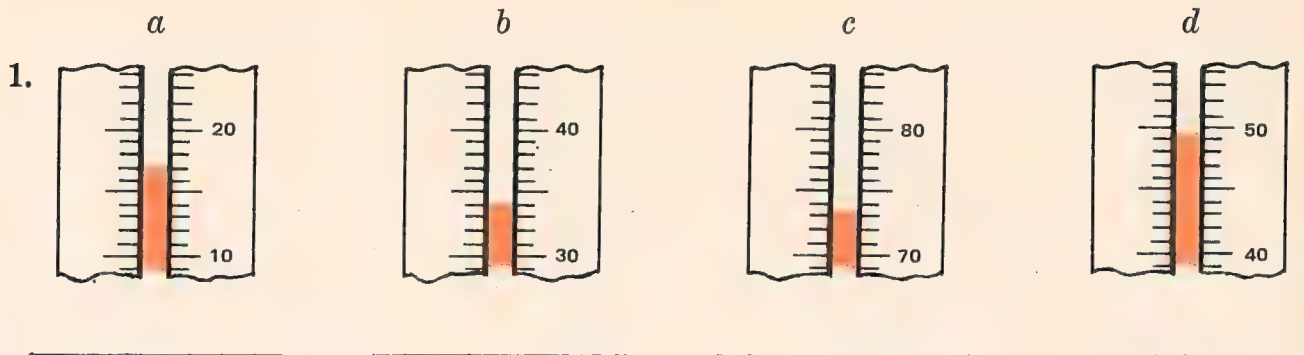
8.

Check your answers. Record your score.

Perfect score: 8 My score: _____

TEST—Temperature, Money, and Roman Numerals

Record the temperature reading shown on each thermometer.



Add or subtract.

a *b* *c* *d* *e*

2.
$$\begin{array}{r} 72\text{¢} \\ + 17\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} \$2.9 \\ + .35 \\ \hline \end{array}$$

$$\begin{array}{r} \$24.59 \\ 19.57 \\ + 28.36 \\ \hline \end{array}$$

$$\begin{array}{r} 56\text{¢} \\ - 25\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} \$9.79 \\ - 4.85 \\ \hline \end{array}$$

Multiply.

3.
$$\begin{array}{r} 29\text{¢} \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \$4.6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \$1.39 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \$4.69 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} \$3.24 \\ \times 24 \\ \hline \end{array}$$

Complete the following as shown.

a *b* *c*

4. XIV = 14 XLI = _____ LXVI = _____

5. XCIV = _____ CXIX = _____ CC = _____

Write a Roman numeral for each of the following.

a *b* *c*

6. 29 = _____ 44 = _____ 67 = _____

7. 97 = _____ 126 = _____ 235 = _____

Check your answers. Record your score.

Perfect score: 25

My score: _____

PRE-TEST—Division

Divide.

a

b

c

d

e

1. $5 \overline{)5}$

$1 \overline{)4}$

$3 \overline{)12}$

$2 \overline{)4}$

$4 \overline{)28}$

2. $1 \overline{)0}$

$2 \overline{)18}$

$4 \overline{)8}$

$3 \overline{)24}$

$5 \overline{)35}$

3. $6 \overline{)24}$

$6 \overline{)12}$

$6 \overline{)48}$

$6 \overline{)6}$

$6 \overline{)30}$

4. $6 \overline{)42}$

$6 \overline{)18}$

$6 \overline{)36}$

$6 \overline{)54}$

$6 \overline{)0}$

5. $7 \overline{)56}$

$7 \overline{)42}$

$7 \overline{)0}$

$7 \overline{)28}$

$7 \overline{)14}$

6. $7 \overline{)63}$

$7 \overline{)21}$

$7 \overline{)49}$

$7 \overline{)7}$

$7 \overline{)35}$

7. $8 \overline{)56}$

$8 \overline{)40}$

$8 \overline{)24}$

$8 \overline{)72}$

$8 \overline{)8}$

8. $8 \overline{)16}$

$8 \overline{)64}$

$8 \overline{)0}$

$8 \overline{)32}$

$8 \overline{)48}$

9. $9 \overline{)54}$

$9 \overline{)9}$

$9 \overline{)72}$

$9 \overline{)36}$

$9 \overline{)18}$

10. $9 \overline{)81}$

$9 \overline{)63}$

$9 \overline{)27}$

$9 \overline{)0}$

$9 \overline{)45}$

Check your answers. Record your score.

Perfect score: 50 My score: _____

Division

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$6 \times 5 = 30, \text{ so } 30 \div 6 = \underline{5}.$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$7 \times 5 = 35, \text{ so } 35 \div 7 = \underline{\quad}.$

Complete the following.

a

1. $6 \times 6 = 36, \text{ so } 36 \div 6 = \underline{\quad}.$

2. $6 \times 7 = 42, \text{ so } 42 \div 6 = \underline{\quad}.$

3. $6 \times 8 = 48, \text{ so } 48 \div 6 = \underline{\quad}.$

4. $6 \times 9 = 54, \text{ so } 54 \div 6 = \underline{\quad}.$

b

$7 \times 6 = 42, \text{ so } 42 \div 7 = \underline{\quad}.$

$7 \times 7 = 49, \text{ so } 49 \div 7 = \underline{\quad}.$

$7 \times 8 = 56, \text{ so } 56 \div 7 = \underline{\quad}.$

$7 \times 9 = 63, \text{ so } 63 \div 7 = \underline{\quad}.$

Divide.

a

5. $6 \overline{) 54}$

6. $7 \overline{) 49}$

7. $6 \overline{) 18}$

8. $7 \overline{) 28}$

b

$7 \overline{) 14}$

$6 \overline{) 42}$

$7 \overline{) 7}$

$6 \overline{) 48}$

c

$6 \overline{) 30}$

$7 \overline{) 42}$

$6 \overline{) 36}$

$7 \overline{) 0}$

d

$7 \overline{) 35}$

$6 \overline{) 0}$

$7 \overline{) 56}$

$6 \overline{) 12}$

e

$6 \overline{) 6}$

$7 \overline{) 21}$

$6 \overline{) 24}$

$7 \overline{) 63}$

Check your answers. Record your score.

Perfect score: 28

My score: _____

Problems

Solve each problem.

1. Mrs. Nance purchased 24 plants. She set the plants out in rows of 6 plants each. How many rows of plants did she have?

Mrs. Nance purchased _____ plants.

She set _____ plants in each row.

She had _____ rows of plants.

2. There are 28 pupils in science class. The same number of pupils is seated at each of 7 tables. How many pupils are at each table?

_____ pupils are to be seated.

There are _____ tables.

_____ pupils should sit at each table.

3. Pencils cost 6¢ each. Marcella has 30¢. What is the greatest number of pencils she can purchase?

She can purchase _____ pencils.

4. Mr. Henderson put 56 books into stacks of 7 books each. How many stacks of books did he have?

He had _____ stacks of books.

5. One season a player hit 42 home runs. The baseball season lasted 6 months and he hit the same number of home runs each month. How many home runs did he hit each month?

He hit _____ home runs each month.

6. There are 35 days before Ed's birthday. How many weeks is it before his birthday? (7 days = 1 week)

It is _____ weeks before his birthday.

7. There are 48 items to be packed. Six items can be packed in each box. How many boxes are needed?

_____ boxes will be needed.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 11 My score: _____

Division

$$\begin{array}{r} 4 \text{ ---} \rightarrow 4 \\ \times 8 \text{ ---} \rightarrow 8 \overline{)32} \\ \underline{32} \end{array}$$

$8 \times 4 = 32$, so $32 \div 8 = \underline{4}$.

$$\begin{array}{r} 7 \text{ ---} \rightarrow 7 \\ \times 9 \text{ ---} \rightarrow 9 \overline{)63} \\ \underline{63} \end{array}$$

$9 \times 7 = 63$, so $63 \div 9 = \underline{\hspace{1cm}}$.

Complete the following.

a

1. $8 \times 6 = 48$, so $48 \div 8 = \underline{\hspace{1cm}}$.

2. $8 \times 7 = 56$, so $56 \div 8 = \underline{\hspace{1cm}}$.

3. $8 \times 8 = 64$, so $64 \div 8 = \underline{\hspace{1cm}}$.

4. $8 \times 9 = 72$, so $72 \div 8 = \underline{\hspace{1cm}}$.

b

$9 \times 6 = 54$, so $54 \div 9 = \underline{\hspace{1cm}}$.

$9 \times 7 = 63$, so $63 \div 9 = \underline{\hspace{1cm}}$.

$9 \times 8 = 72$, so $72 \div 9 = \underline{\hspace{1cm}}$.

$9 \times 9 = 81$, so $81 \div 9 = \underline{\hspace{1cm}}$.

Divide.

a

b

c

d

e

5. $8 \overline{)8}$

$9 \overline{)18}$

$8 \overline{)56}$

$9 \overline{)27}$

$8 \overline{)32}$

6. $9 \overline{)45}$

$8 \overline{)64}$

$9 \overline{)0}$

$8 \overline{)24}$

$9 \overline{)54}$

7. $8 \overline{)72}$

$9 \overline{)36}$

$8 \overline{)16}$

$9 \overline{)9}$

$8 \overline{)40}$

8. $9 \overline{)63}$

$8 \overline{)0}$

$9 \overline{)72}$

$8 \overline{)48}$

$9 \overline{)81}$

Check your answers. Record your score.

Perfect score: 28

My score: _____

Problems

Solve each problem.

1. A checkerboard has 64 squares. Each of the 8 rows has the same number of squares. How many squares are in each row?

There are _____ squares in each row.

2. Thirty-six boys came to the park to play baseball. How many teams of 9 players each could be formed?

_____ teams could be formed.

3. Each washer load weighs 9 pounds. How many washer loads are there in 54 pounds of laundry?

There are _____ washer loads.

4. An 8-story apartment building contains 48 apartments. There are the same number of apartments on each floor. How many apartments are there on each floor?

There are _____ apartments on each floor.

5. Nine books weigh 18 pounds. Each book has the same weight. How much does each book weigh?

Each book weighs _____ pounds.

6. Miss McKee can type 8 pages an hour. How long would it take her to type 24 pages?

It would take _____ hours.

7. Mr. Cook works 8 hours a day. He worked 40 hours last week. How many days did he work last week?

He worked _____ days last week.

8. Pencils cost 7¢ each. How many pencils can be purchased for 63¢?

_____ pencils can be purchased.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8 My score: _____

NAME _____

Division

Complete the following.

*a**b*

1. $9 \times 4 = 36$, so $36 \div 9 =$ _____.

$2 \times 7 = 14$, so $14 \div 2 =$ _____.

2. $1 \times 8 = 8$, so $8 \div 1 =$ _____.

$6 \times 7 = 42$, so $42 \div 6 =$ _____.

3. $7 \times 6 = 42$, so $42 \div 7 =$ _____.

$3 \times 8 = 24$, so $24 \div 3 =$ _____.

4. $4 \times 6 = 24$, so $24 \div 4 =$ _____.

$5 \times 0 = 0$, so $0 \div 5 =$ _____.

Divide.

*a**b**c**d**e*

5. $4 \overline{) 36}$

$9 \overline{) 72}$

$6 \overline{) 54}$

$5 \overline{) 10}$

$8 \overline{) 56}$

6. $2 \overline{) 6}$

$4 \overline{) 20}$

$7 \overline{) 28}$

$1 \overline{) 4}$

$6 \overline{) 30}$

7. $7 \overline{) 56}$

$6 \overline{) 18}$

$3 \overline{) 0}$

$9 \overline{) 54}$

$8 \overline{) 40}$

8. $1 \overline{) 6}$

$9 \overline{) 18}$

$5 \overline{) 20}$

$7 \overline{) 14}$

$4 \overline{) 12}$

9. $2 \overline{) 2}$

$2 \overline{) 18}$

$8 \overline{) 24}$

$6 \overline{) 6}$

$1 \overline{) 2}$

10. $7 \overline{) 0}$

$3 \overline{) 12}$

$3 \overline{) 6}$

$9 \overline{) 0}$

$5 \overline{) 30}$

11. $5 \overline{) 40}$

$8 \overline{) 8}$

$2 \overline{) 10}$

$1 \overline{) 0}$

$4 \overline{) 4}$

12. $3 \overline{) 18}$

$7 \overline{) 35}$

$8 \overline{) 32}$

$9 \overline{) 27}$

$2 \overline{) 16}$

Check your answers. Record your score.

Perfect score: 48 My score: _____

Problems

Solve each problem.

1. There are 45 school days left before vacation. There are 5 school days each week. How many weeks are left before vacation?

There are _____ weeks left.

2. There are 35 seats in Mrs. Champney's room. The seats are arranged in 7 rows with the same number in each row. How many seats are there in each row?

There are _____ seats in each row.

3. Diane bought 21 feet of material. How many yards of material did she buy? (3 feet = 1 yard)

Diane bought _____ yards of material.

4. Forty-eight cars are parked in a parking lot. The cars are parked in 6 rows with the same number in each row. How many cars are parked in each row?

_____ cars are parked in each row.

5. There are 36 seats on a bus and 4 seats per row. How many rows of seats are there on the bus?

There are _____ rows of seats on the bus.

6. Mr. Woods works a 6-day week. He works 54 hours each week and the same number of hours each day. How many hours does he work each day?

He works _____ hours each day.

7. It takes 9 minutes to assemble a certain item. How many items can be assembled in 54 minutes?

_____ items can be assembled.

8. There are 32 girls in a relay race. Four run on each team. How many teams are there?

There are _____ teams.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8 My score: _____

TEST—Division

Divide.

a

b

c

d

e

1. $8 \overline{)16}$

$5 \overline{)15}$

$2 \overline{)0}$

$6 \overline{)48}$

$9 \overline{)81}$

2. $4 \overline{)8}$

$1 \overline{)1}$

$3 \overline{)3}$

$8 \overline{)72}$

$7 \overline{)63}$

3. $3 \overline{)18}$

$4 \overline{)32}$

$7 \overline{)42}$

$2 \overline{)4}$

$5 \overline{)5}$

4. $7 \overline{)49}$

$5 \overline{)25}$

$6 \overline{)36}$

$9 \overline{)9}$

$2 \overline{)8}$

5. $6 \overline{)42}$

$2 \overline{)12}$

$8 \overline{)0}$

$1 \overline{)3}$

$4 \overline{)28}$

6. $3 \overline{)15}$

$6 \overline{)24}$

$1 \overline{)5}$

$8 \overline{)32}$

$4 \overline{)24}$

7. $5 \overline{)35}$

$1 \overline{)7}$

$6 \overline{)12}$

$7 \overline{)7}$

$9 \overline{)27}$

8. $3 \overline{)9}$

$4 \overline{)16}$

$2 \overline{)16}$

$3 \overline{)21}$

$1 \overline{)9}$

9. $8 \overline{)48}$

$7 \overline{)21}$

$5 \overline{)45}$

$9 \overline{)45}$

$6 \overline{)0}$

10. $9 \overline{)63}$

$4 \overline{)0}$

$3 \overline{)27}$

$7 \overline{)35}$

$8 \overline{)64}$

Check your answers. Record your score.

Perfect score: 50 My score: _____

PRE-TEST—Division

Divide:

a

b

c

d

e

1. $3 \overline{) 26}$

$5 \overline{) 47}$

$6 \overline{) 49}$

$8 \overline{) 62}$

$9 \overline{) 77}$

2. $2 \overline{) 28}$

$4 \overline{) 48}$

$3 \overline{) 93}$

$7 \overline{) 84}$

$6 \overline{) 96}$

3. $5 \overline{) 67}$

$8 \overline{) 93}$

$9 \overline{) 97}$

$6 \overline{) 87}$

$7 \overline{) 97}$

4. $3 \overline{) 186}$

$4 \overline{) 236}$

$7 \overline{) 161}$

$9 \overline{) 425}$

$8 \overline{) 612}$

5. $3 \overline{) 369}$

$4 \overline{) 840}$

$2 \overline{) 964}$

$5 \overline{) 696}$

$7 \overline{) 898}$

Check your answers. Record your score.

Perfect score: 25 My score: _____

Division

Study how to divide 32 by 6.

×	1	2	3	4	5	6
6	6	12	18	24	30	36

32 is between 30 and 36, so $32 \div 6$ is between 5 and 6. The ones digit is 5.

Since $32 - 30 = 2$ and 2 is less than 6, the **remainder (r)** is 2.

$$\begin{array}{r} 5 \\ 6 \overline{)32} \\ \underline{30} \end{array} \quad (5 \times 6)$$

remainder \rightarrow 2 (32 - 30)

Study how to divide 43 by 9.

×	1	2	3	4	5	6
9	9	18	27	36	45	54

43 is between 36 and 45, so $43 \div 9$ is between _____ and _____. The ones digit is _____.

Since $43 - 36 = 7$ and 7 is less than 9, the **remainder (r)** is _____.

$$\begin{array}{r} 4 \\ 9 \overline{)43} \\ \underline{36} \end{array} \quad (4 \times 9)$$

remainder \rightarrow 7 (43 - 36)

Divide.

*a**b**c**d**e*

1. $5 \overline{)27}$

$8 \overline{)47}$

$2 \overline{)17}$

$9 \overline{)46}$

$6 \overline{)38}$

2. $7 \overline{)61}$

$9 \overline{)67}$

$5 \overline{)49}$

$3 \overline{)23}$

$8 \overline{)78}$

3. $4 \overline{)38}$

$6 \overline{)45}$

$8 \overline{)63}$

$2 \overline{)19}$

$7 \overline{)38}$

Check your answers. Record your score.

Perfect score: 15

My score: _____

Problems

Solve each problem.

1. How many 4-inch strips can be cut from a piece of ribbon that is 15 inches long? How much ribbon will be left?

_____ strips can be cut.

A _____-inch piece of ribbon will be left.

2. Dale has 33¢. Pencils cost 5¢ each. What is the greatest number of pencils that he can buy? How much money will he have left?

He can buy _____ pencils.

He will have _____¢ left.

3. Denny has a board that is 68 inches long. How many 9-inch pieces can he cut from this board? What length of board will be left?

_____ pieces can be cut.

A _____-inch board will be left.

4. A water tank contains 28 gallons. How many 5-gallon buckets can be filled by using the water in the tank? How many gallons will be left?

_____ buckets could be filled.

_____ gallons will be left.

5. It takes 8 minutes to assemble a doodad. How many doodads can be assembled in 60 minutes? How much time would be left to partially assemble another doodad?

_____ doodads could be assembled.

_____ minutes will be left.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 10

My score: _____

Division

Study how to divide 72 by 3.

\times	10	20	30	40
3	30	60	90	120

72 is between 60 and 90, so
 $72 \div 3$ is between 20 and 30.
 The tens digit is 2.

$$\begin{array}{r}
 2 \\
 3 \overline{)72} \\
 \underline{60} \quad (20 \times 3) \\
 12 \quad (72 - 60)
 \end{array}$$

\times	1	2	3	4	5
3	3	6	9	12	15

$4 \times 3 = 12$, so the ones
 digit is 4.

$$\begin{array}{r}
 24 \\
 3 \overline{)72} \\
 \underline{60} \\
 12 \\
 \underline{12} \quad (4 \times 3) \\
 \text{remainder} \rightarrow 0 \quad (12 - 12)
 \end{array}$$

Divide.

*a**b**c**d**e*

1. $2 \overline{)26}$

$4 \overline{)48}$

$5 \overline{)55}$

$3 \overline{)96}$

$4 \overline{)88}$

2. $4 \overline{)47}$

$6 \overline{)69}$

$3 \overline{)65}$

$7 \overline{)96}$

$8 \overline{)99}$

3. $7 \overline{)91}$

$9 \overline{)96}$

$3 \overline{)87}$

$8 \overline{)97}$

$4 \overline{)92}$

Check your answers. Record your score.

Perfect score: 15

My score: _____

Problems

Solve each problem.

1. Eighty-four pupils are to be separated into 6 groups with the same number in each group. How many pupils will be in each group?

_____ pupils will be in each group.

2. There are 94 grapefruit in a crate. How many bags of 6 grapefruit each can be filled by using the grapefruit from 1 crate? How many grapefruit will be left over?

_____ bags can be filled.

_____ grapefruit will be left over.

3. Mr. Littles' lot is 51 feet wide. What is the width of the lot in yards? (3 feet = 1 yard)

The lot is _____ yards wide.

4. There are 96 fluid ounces of fruit punch in a large container. How many 7-ounce glasses can be filled by using the punch in the container? How many fluid ounces of punch will be left over?

_____ glasses can be filled.

_____ fluid ounces will be left over.

5. There are 96 toys in a case. Each case contains 8 boxes with the same number of toys in each box. How many toys are in each box?

There are _____ toys in each box.

6. How many 4-foot pieces of rope can be cut from a rope that is 50 feet long? How much rope will be left over?

_____ pieces of rope can be cut.

A _____-foot piece of rope will be left over.

1.

2.

3.

4.

5.

6.

Check your answers. Record your score.

Perfect score: 9

My score: _____

NAME _____

Division

Divide.

a

b

c

d

e

1. $3 \overline{)23}$

$5 \overline{)46}$

$7 \overline{)67}$

$9 \overline{)85}$

$8 \overline{)69}$

2. $2 \overline{)28}$

$3 \overline{)36}$

$4 \overline{)44}$

$3 \overline{)93}$

$4 \overline{)84}$

3. $5 \overline{)85}$

$6 \overline{)96}$

$8 \overline{)96}$

$7 \overline{)98}$

$9 \overline{)90}$

4. $7 \overline{)74}$

$5 \overline{)57}$

$8 \overline{)99}$

$2 \overline{)85}$

$3 \overline{)65}$

5. $3 \overline{)79}$

$5 \overline{)67}$

$6 \overline{)97}$

$4 \overline{)94}$

$7 \overline{)89}$

Check your answers. Record your score.

Perfect score: 25

My score: _____

Problems

Solve each problem.

1. Suppose you travel the same distance each hour. How many miles must you travel each hour in order to travel 98 miles in 2 hours?

You must travel _____ miles each hour.

2. Mr. Mitchell's car used 8 gallons of gasoline in traveling 96 miles. Assume that the same distance was traveled for each gallon. How many miles were traveled for each gallon of gasoline?

_____ miles were traveled for each gallon.

3. Bert has 65 pop bottles. How many 6-bottle cartons can he fill? How many bottles will be left over?

He can fill _____ cartons.

There will be _____ bottles left over.

4. Ninety-eight pupils were separated into 7 groups. There was the same number in each group. How many pupils were in each group?

_____ pupils were in each group.

5. Vince sold the same number of papers each hour for 3 hours. He sold 69 papers in all. How many papers did he sell each hour?

He sold _____ papers each hour.

6. Steve has 87 cents. What is the greatest number of nickels he could have? What is the least number of pennies that he could have?

He could have at most _____ nickels.

He will have at least _____ pennies.

7. A case of 72 toys has 6 boxes inside. There are the same number of toys in each box. How many toys are in each box?

There are _____ toys in each box.

Check your answers. Record your score.

Perfect score: 9

My score: _____

Division

Study how to divide 263 by 5.

Since $100 \times 5 = 500$ and 500 is greater than 263, there is no hundreds digit.

$$5 \overline{)263}$$

\times	10	20	30	40	50	60
5	50	100	150	200	250	300

263 is between 250 and 300.

$263 \div 5$ is between _____

and _____. The

tens digit is _____.

$$\begin{array}{r} 5 \\ 5 \overline{)263} \\ \underline{250} \\ 13 \end{array} \quad \begin{array}{l} (50 \times 5) \\ (263 - 250) \end{array}$$

\times	1	2	3	4	5
5	5	10	15	20	25

13 is between 10 and 15.

$13 \div 5$ is between _____

and _____. The

ones digit is _____.

$$\begin{array}{r} 52 \text{ r}3 \\ 5 \overline{)263} \\ \underline{250} \\ 13 \\ \underline{10} \\ 3 \end{array} \quad \begin{array}{l} (2 \times 5) \\ (13 - 10) \end{array}$$

Divide.

a

1. $4 \overline{)248}$

b

$6 \overline{)366}$

c

$3 \overline{)189}$

d

$7 \overline{)266}$

e

$8 \overline{)472}$

2. $9 \overline{)547}$

$2 \overline{)121}$

$5 \overline{)308}$

$6 \overline{)374}$

$4 \overline{)341}$

3. $8 \overline{)735}$

$3 \overline{)252}$

$9 \overline{)479}$

$7 \overline{)378}$

$5 \overline{)473}$

Check your answers. Record your score.

Perfect score: 15

My score: _____

Problems



Solve each problem.

1. A truck driver traveled from Chicago to St. Louis in 6 hours. The same distance was traveled each hour. How many miles were traveled each hour?

_____ miles were traveled each hour.

2. A bus left New York City and arrived in Baltimore 4 hours later. The bus traveled the same distance each hour. How many miles were traveled each hour?

_____ miles were traveled each hour.

3. Suppose the same distance is traveled each hour. How many miles must be traveled each hour to go from Los Angeles to San Francisco in 8 hours?

_____ miles must be traveled each hour.

4. Mr. Jefferson plans to drive from Los Angeles to Phoenix in 7 hours. How many miles must he travel each hour if he travels the same distance each hour?

He must travel _____ miles each hour.

5. Suppose the same distance is traveled each hour. How many miles must be traveled each hour to go from Chicago to Pittsburgh in 9 hours?

_____ miles must be traveled each hour.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 5

My score: _____

Division

Study how to divide 813 by 4.

\times	100	200	300
4	400	800	1200

813 is between 800 and 1200,
so $813 \div 4$ is between

_____ and _____. The

hundreds digit is _____.

$$\begin{array}{r}
 2 \\
 4 \overline{) 813} \\
 \underline{800} \quad (200 \times 4) \\
 13 \quad (813 - 800)
 \end{array}$$

Since $10 \times 4 = 40$ and
40 is greater than 13,
the tens digit is

$$\begin{array}{r}
 20 \\
 4 \overline{) 813} \\
 \underline{800} \\
 13 \quad (0 \times 4) \\
 \underline{0} \quad (13 - 0) \\
 13
 \end{array}$$

\times	1	2	3	4
4	4	8	12	16

13 is between 12 and
16, so $13 \div 4$ is between

_____ and _____. The

ones digit is _____.

$$\begin{array}{r}
 203 \text{ r}1 \\
 4 \overline{) 813} \\
 \underline{800} \\
 13 \\
 \underline{12} \quad (3 \times 4) \\
 1 \quad (13 - 12)
 \end{array}$$

Divide.

a

1. $2 \overline{) 468}$

b

$4 \overline{) 472}$

c

$3 \overline{) 609}$

d

$5 \overline{) 585}$

e

$7 \overline{) 882}$

2. $8 \overline{) 876}$

$6 \overline{) 794}$

$9 \overline{) 979}$

$2 \overline{) 987}$

$5 \overline{) 593}$

3. $6 \overline{) 842}$

$3 \overline{) 949}$

$7 \overline{) 875}$

$4 \overline{) 879}$

$8 \overline{) 992}$

Check your answers. Record your score.

Perfect score: 15

My score: _____

Problems

Solve each problem.

1. Mrs. Steel needs 960 trading stamps to fill a book. These stamps will fill 8 pages with the same number of stamps on each page. How many stamps are needed to fill each page?

_____ stamps are needed to fill each page.

2. There are 576 pencils in 4 cases. There are the same number of pencils in each case. How many pencils are in each case?

There are _____ pencils in each case.

3. There are 532 apples in all. How many sacks of 5 apples each can be filled? How many apples will be left over?

_____ sacks can be filled.

_____ apples will be left over.

4. At a factory, 968 items were manufactured during an 8-hour shift. The same number was manufactured each hour. How many items were manufactured each hour?

_____ items were manufactured each hour.

5. The Chesapeake Bridge is 540 feet long. It consists of 4 sections of the same length. How long is each section?

Each section is _____ feet long.

6. A full load for a dry cleaning machine is 5 suits. There are 624 suits to be cleaned. How many full loads will there be? How many suits will be in the partial load?

There will be _____ full loads.

There will be _____ suits in the partial load.

7. A carpenter uses 5 nails to shingle one square foot of roof. At that rate, how many square feet of roof could be shingled by using 750 nails?

_____ square feet could be shingled.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 9

My score: _____

NAME _____

Division

Divide.

*a**b**c**d**e*

1. $2 \overline{) 126}$

$6 \overline{) 486}$

$3 \overline{) 249}$

$7 \overline{) 553}$

$8 \overline{) 624}$

2. $5 \overline{) 473}$

$4 \overline{) 357}$

$9 \overline{) 758}$

$6 \overline{) 525}$

$3 \overline{) 269}$

3. $3 \overline{) 693}$

$2 \overline{) 816}$

$4 \overline{) 856}$

$5 \overline{) 925}$

$7 \overline{) 791}$

4. $9 \overline{) 969}$

$6 \overline{) 797}$

$8 \overline{) 953}$

$7 \overline{) 899}$

$5 \overline{) 869}$

Check your answers. Record your score.

Perfect score: 20

My score: _____

Problems

Solve each problem.

1. A certain rocket uses 945 pounds of fuel in 9 seconds during lift off. The same amount of fuel is used each second. How many pounds of fuel are used each second?

_____ pounds of fuel are used each second.

2. A team for a relay race consists of 4 members who run the same distance. How far would each member run in an 880-yard relay?

Each team member would run _____ yards.

3. There are 435 folding chairs in all. How many rows of 9 chairs each can be formed? How many chairs will be left over?

_____ rows can be formed.

_____ chairs will be left over.

4. The weight of a freight shipment is 920 pounds. Each of the 8 boxes in the shipment has the same weight. What is the weight of each box?

The weight of each box is _____ pounds.

5. A man's weight on earth is about 6 times his weight on the moon. How much would a man who weighs 180 pounds on earth weigh on the moon?

He would weigh _____ pounds on the moon.

6. There are 627 items to be packed. The items are to be packed 6 to a box. How many boxes can be filled? How many items will be in the partially filled box?

_____ boxes can be filled.

_____ items will be in the partially filled box.

7. The total weight of 4 men who play for the Bears' football team is 864 pounds. Suppose each player has the same weight. What would each player weigh?

Each player would weigh _____ pounds.

Check your answers. Record your score.

Perfect score: 9

My score: _____

NAME _____

TEST—Division

Divide.

*a**b**c**d**e*

1. $4 \overline{) 26}$

$6 \overline{) 39}$

$7 \overline{) 68}$

$8 \overline{) 88}$

$2 \overline{) 86}$

2. $5 \overline{) 90}$

$6 \overline{) 78}$

$3 \overline{) 68}$

$4 \overline{) 87}$

$8 \overline{) 98}$

3. $2 \overline{) 104}$

$6 \overline{) 246}$

$3 \overline{) 219}$

$5 \overline{) 285}$

$8 \overline{) 672}$

4. $4 \overline{) 363}$

$3 \overline{) 278}$

$5 \overline{) 427}$

$9 \overline{) 627}$

$8 \overline{) 465}$

5. $9 \overline{) 981}$

$4 \overline{) 892}$

$7 \overline{) 952}$

$4 \overline{) 843}$

$8 \overline{) 986}$

Check your answers. Record your score.

Perfect score: 25

My score: _____

PRE-TEST—Division

Divide.

a

b

c

d

1. $3 \overline{) 2493}$

$5 \overline{) 4525}$

$8 \overline{) 4893}$

$6 \overline{) 4257}$

2. $4 \overline{) 8408}$

$9 \overline{) 9081}$

$7 \overline{) 9147}$

$5 \overline{) 6724}$

3. $2 \overline{) 12684}$

$4 \overline{) 32824}$

$6 \overline{) 24163}$

$9 \overline{) 17653}$

4. $5 \overline{) 56505}$

$3 \overline{) 36927}$

$7 \overline{) 84359}$

$8 \overline{) 94725}$

Check your answers. Record your score.

Perfect score: 16

My score: _____

Division

$6 \overline{)5247}$

Since $1000 \times 6 = 6000$
and 6000 is greater
than 5247, there is
no thousands digit.

$$\begin{array}{r} 8 \\ 6 \overline{)5247} \\ \underline{4800} \\ 447 \end{array}$$

$800 \times 6 = \underline{\hspace{2cm}}$

$5247 - 4800 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 87 \\ 6 \overline{)5247} \\ \underline{4800} \\ 447 \\ \underline{420} \\ 27 \end{array}$$

$70 \times 6 = \underline{\hspace{2cm}}$

$447 - 420 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 874 \text{ r}3 \\ 6 \overline{)5247} \\ \underline{4800} \\ 447 \\ \underline{420} \\ 27 \\ \underline{24} \\ 3 \end{array}$$

$4 \times 6 = \underline{\hspace{2cm}}$

$27 - 24 = \underline{\hspace{2cm}}$

Divide.

*a**b**c**d**e*

1. $2 \overline{)1248}$

$7 \overline{)4291}$

$3 \overline{)2580}$

$6 \overline{)3348}$

$5 \overline{)3745}$

2. $8 \overline{)6483}$

$9 \overline{)8174}$

$4 \overline{)2569}$

$2 \overline{)1983}$

$7 \overline{)3490}$

3. $3 \overline{)2922}$

$6 \overline{)5277}$

$5 \overline{)4350}$

$8 \overline{)6543}$

$9 \overline{)6255}$

Check your answers. Record your score.

Perfect score: 15

My score: _____

Division

$\begin{array}{r} 2 \\ 4 \overline{) 9527} \\ \underline{8000} \\ 1527 \end{array}$	$\begin{array}{r} 23 \\ 4 \overline{) 9527} \\ \underline{8000} \\ 1527 \\ \underline{1200} \\ 327 \end{array}$	$\begin{array}{r} 238 \\ 4 \overline{) 9527} \\ \underline{8000} \\ 1527 \\ \underline{1200} \\ 327 \\ \underline{320} \\ 7 \end{array}$	$\begin{array}{r} 2381 \text{ r}3 \\ 4 \overline{) 9527} \\ \underline{8000} \\ 1527 \\ \underline{1200} \\ 327 \\ \underline{320} \\ 7 \\ \underline{4} \\ 3 \end{array}$
$2000 \times 4 = \underline{\hspace{2cm}}$ $9527 - 8000 = \underline{\hspace{2cm}}$	$300 \times 4 = \underline{\hspace{2cm}}$ $1527 - 1200 = \underline{\hspace{2cm}}$	$80 \times 4 = \underline{\hspace{2cm}}$ $327 - 320 = \underline{\hspace{2cm}}$	$1 \times 4 = \underline{\hspace{2cm}}$ $7 - 4 = \underline{\hspace{2cm}}$

Divide.

- | | | | | |
|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> |
| 1. $6 \overline{) 6684}$ | $3 \overline{) 9642}$ | $8 \overline{) 8632}$ | $5 \overline{) 7845}$ | $9 \overline{) 9819}$ |
| | | | | |
| 2. $5 \overline{) 5758}$ | $4 \overline{) 4287}$ | $7 \overline{) 9466}$ | $6 \overline{) 8755}$ | $4 \overline{) 9979}$ |

Check your answers. Record your score.

Perfect score: 10

My score:

NAME _____

Division

Divide.

*a**b**c**d**e*

1. $7 \overline{) 3563}$

$2 \overline{) 1682}$

$6 \overline{) 4916}$

$5 \overline{) 4505}$

$3 \overline{) 2301}$

2. $8 \overline{) 1647}$

$9 \overline{) 1186}$

$5 \overline{) 3854}$

$4 \overline{) 3547}$

$7 \overline{) 6466}$

3. $3 \overline{) 6396}$

$6 \overline{) 7254}$

$4 \overline{) 8256}$

$9 \overline{) 9621}$

$5 \overline{) 8755}$

4. $7 \overline{) 7845}$

$8 \overline{) 8915}$

$2 \overline{) 5007}$

$6 \overline{) 9437}$

$8 \overline{) 9785}$

Check your answers. Record your score.

Perfect score: 20

My score: _____

Problems

Solve each problem.

1. The Longs plan to travel 1,156 miles over a 4-day period. Suppose they travel the same distance each day. How many miles will they travel each day?

They will travel _____ miles each day.

2. The Thompsons drove 3,524 miles in 4 months. They drove the same number of miles each month. How many miles did they drive each month?

They drove _____ miles each month.

3. The Thompsons' car cost \$2,112. They paid the same amount in each of 3 years. How much did they pay each year?

They paid \$_____ each year.

4. Each box can hold 8 cans. There are 1,539 cans to be packed. How many boxes will be filled? How many cans will be in the partially filled box?

_____ boxes can be filled.

There will be _____ cans in the partially filled box.

5. At St. Thomas School there are 4 grades and 4,196 pupils. There are the same number of pupils in each grade. How many pupils are in each grade?

There are _____ pupils in each grade.

6. There are 5,280 feet in a mile and 3 feet in a yard. How many yards are there in a mile?

There are _____ yards in a mile.

7. A fuel tank contains 1,050 gallons of fuel oil. The fuel oil is used at the rate of 9 gallons a day. For how many full days will this supply last? How many gallons will be left over?

This supply will last for _____ full days.

_____ gallons of fuel oil will be left over.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 9

My score: _____

Division

$$3 \overline{)23527}$$

Since $10000 \times 3 = 30000$ and 30000 is greater than 23527, there is no ten thousands digit.

$$7000 \times 3 = \underline{\hspace{2cm}}$$

$$23527 - 21000 = \underline{\hspace{2cm}}$$

$$800 \times 3 = \underline{\hspace{2cm}}$$

$$2527 - 2400 = \underline{\hspace{2cm}}$$

$$40 \times 3 = \underline{\hspace{2cm}}$$

$$127 - 120 = \underline{\hspace{2cm}}$$

$$2 \times 3 = \underline{\hspace{2cm}}$$

$$7 - 6 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 7 \\ 3 \overline{)23527} \\ \underline{21000} \\ 2527 \end{array}$$

$$\begin{array}{r} 78 \\ 3 \overline{)23527} \\ \underline{21000} \\ 2527 \\ \underline{2400} \\ 127 \end{array}$$

$$\begin{array}{r} 784 \\ 3 \overline{)23527} \\ \underline{21000} \\ 2527 \\ \underline{2400} \\ 127 \\ \underline{120} \\ 7 \end{array}$$

$$\begin{array}{r} 7842 \text{ r}1 \\ 3 \overline{)23527} \\ \underline{21000} \\ 2527 \\ \underline{2400} \\ 127 \\ \underline{120} \\ 7 \\ \underline{6} \\ 1 \end{array}$$

Divide.

*a**b**c**d*

1. $2 \overline{)12486}$

$5 \overline{)39285}$

$7 \overline{)53424}$

$3 \overline{)26736}$

2. $8 \overline{)64635}$

$9 \overline{)17653}$

$4 \overline{)25435}$

$6 \overline{)56429}$

Check your answers. Record your score.

Perfect score: 8

My score: _____

Division

$\begin{array}{r} 1 \\ 5 \overline{) 67857} \\ \underline{50000} \\ 17857 \end{array}$ <p>10000 \times 5 = _____</p> <p>67857 - 50000 = _____</p> <p>3000 \times 5 = _____</p> <p>17857 - 15000 = _____</p>	$\begin{array}{r} 13 \\ 5 \overline{) 67857} \\ \underline{50000} \\ 17857 \\ \underline{15000} \\ 2857 \end{array}$ <p>500 \times 5 = _____</p> <p>2857 - 2500 = _____</p>	$\begin{array}{r} 135 \\ 5 \overline{) 67857} \\ \underline{50000} \\ 17857 \\ \underline{15000} \\ 2857 \\ \underline{2500} \\ 357 \end{array}$ <p>70 \times 5 = _____</p> <p>357 - 350 = _____</p>	$\begin{array}{r} 1357 \\ 5 \overline{) 67857} \\ \underline{50000} \\ 17857 \\ \underline{15000} \\ 2857 \\ \underline{2500} \\ 357 \\ \underline{350} \\ 7 \end{array}$ <p>1 \times 5 = _____</p> <p>7 - 5 = _____</p>	$\begin{array}{r} 13571 \text{ r} 2 \\ 5 \overline{) 67857} \\ \underline{50000} \\ 17857 \\ \underline{15000} \\ 2857 \\ \underline{2500} \\ 357 \\ \underline{350} \\ 7 \\ \underline{5} \\ 2 \end{array}$
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Divide.

- | | | | |
|---------------------------|------------------------|------------------------|------------------------|
| <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> |
| 1. $7 \overline{) 98455}$ | $6 \overline{) 84372}$ | $2 \overline{) 86742}$ | $5 \overline{) 73885}$ |
| 2. $3 \overline{) 69574}$ | $4 \overline{) 97575}$ | $8 \overline{) 96574}$ | $9 \overline{) 98342}$ |

Check your answers. Record your score.

Perfect score: 8

My score: _____

NAME _____

Division

Divide.

a

b

c

d

1. $7 \overline{) 28427}$

$6 \overline{) 36072}$

$3 \overline{) 27575}$

$4 \overline{) 34751}$

2. $9 \overline{) 47525}$

$2 \overline{) 13757}$

$8 \overline{) 81624}$

$5 \overline{) 65175}$

3. $6 \overline{) 78497}$

$9 \overline{) 91478}$

$7 \overline{) 86582}$

$8 \overline{) 95475}$

Check your answers. Record your score.

Perfect score: 12

My score: _____

Problems

Solve each problem.

1. A factory produced 17,549 transistors during a 7-hour shift. The same number was produced each hour. How many were produced each hour?

_____ transistors were produced each hour.

2. Six items can be packed in each case. How many cases will be filled in packing 10,275 items? How many items will be in the partially filled case?

_____ cases will be filled.

_____ items will be in the partially filled case.

3. There were 44,352 patients treated at the hospital during the last 2 months. Suppose the same number of patients were treated each month. How many were treated each month?

There were _____ patients treated each month.

4. A truck weighs 14,260 pounds. Its weight is distributed evenly to each of its 4 wheels. How much weight is there for each wheel?

There are _____ pounds for each wheel.

5. Last year the Tri-State Fence Company erected 53,248 feet of fence. The fencing comes in 6-foot sections. How many complete sections were erected? How many feet from another section were used?

_____ complete sections were erected.

_____ feet from another section were used.

6. A salesman traveled 12,480 miles during a 6-month period. Suppose the same distance was traveled each month. How many miles were traveled each month?

_____ miles were traveled each month.

7. In our district there are 35,098 school children. There are as many boys as girls. How many of the school children are girls?

_____ of the children are girls.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 9

My score: _____

NAME _____

TEST—Division

Divide.

a

b

c

d

e

1. $3 \overline{) 2169}$

$6 \overline{) 4812}$

$4 \overline{) 2284}$

$2 \overline{) 12562}$

$6 \overline{) 18486}$

2. $7 \overline{) 5478}$

$8 \overline{) 3645}$

$5 \overline{) 4378}$

$8 \overline{) 62453}$

$4 \overline{) 36751}$

3. $9 \overline{) 9819}$

$7 \overline{) 8442}$

$5 \overline{) 7605}$

$5 \overline{) 52560}$

$7 \overline{) 91847}$

4. $3 \overline{) 8252}$

$6 \overline{) 8755}$

$8 \overline{) 9147}$

$9 \overline{) 91743}$

$3 \overline{) 86785}$

Check your answers. Record your score.

Perfect score: 20

My score: _____

PRE-TEST—Multiplication and Division

Multiply or divide. Check each answer.

a
1.
$$\begin{array}{r} 213 \\ \times 2 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 526 \\ \times 5 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 787 \\ \times 8 \\ \hline \end{array}$$

4.
$$2 \overline{)126}$$

5.
$$5 \overline{)4567}$$

6.
$$4 \overline{)13457}$$

b
$$\begin{array}{r} 1202 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7654 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2654 \\ \times 9 \\ \hline \end{array}$$

$$3 \overline{)679}$$

$$9 \overline{)8722}$$

$$7 \overline{)12345}$$

c
$$\begin{array}{r} 20123 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14235 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15359 \\ \times 6 \\ \hline \end{array}$$

$$8 \overline{)964}$$

$$6 \overline{)6726}$$

$$5 \overline{)67525}$$

Check your answers. Record your score.

Perfect score: 18

My score: _____

Multiplication and Division

$$\begin{array}{r} 19 \\ \times 5 \\ \hline 95 \end{array}$$

$$\begin{array}{r} 19 \\ 5 \overline{)95} \\ \underline{50} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

$$\begin{array}{r} 13 \\ 7 \overline{)91} \\ \underline{70} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

$$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$$

$5 \times 19 = 95, \text{ so } 95 \div 5 = \underline{\hspace{2cm}}$

$91 \div 7 = 13, \text{ so } 7 \times 13 = \underline{\hspace{2cm}}$

Complete each of the following.

*a**b*

1. $5 \times 117 = 585$, so $585 \div 5 = \underline{\hspace{2cm}}$.

$285 \div 3 = 95$, so $3 \times 95 = \underline{\hspace{2cm}}$.

2. $7 \times 219 = 1533$, so $\underline{\hspace{2cm}} \div 7 = 219$.

$763 \div 7 = 109$, so $7 \times \underline{\hspace{2cm}} = 763$.

3. $6 \times 7123 = 42738$, so $42738 \div \underline{\hspace{2cm}} = 7123$.

$1827 \div 9 = 203$, so $\underline{\hspace{2cm}} \times 203 = 1827$.

Multiply or divide.

*a**b**c**d*

4.
$$\begin{array}{r} 27 \\ \times 5 \\ \hline \end{array}$$

$$5 \overline{)135}$$

$$\begin{array}{r} 123 \\ \times 8 \\ \hline \end{array}$$

$$8 \overline{)984}$$

5.
$$\begin{array}{r} 728 \\ \times 6 \\ \hline \end{array}$$

$$6 \overline{)4368}$$

$$4 \overline{)8324}$$

$$\begin{array}{r} 2081 \\ \times 4 \\ \hline \end{array}$$

6.
$$9 \overline{)11214}$$

$$\begin{array}{r} 1246 \\ \times 9 \\ \hline \end{array}$$

$$3 \overline{)27561}$$

$$\begin{array}{r} 9187 \\ \times 3 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 18

My score: _____

Problems

Solve each problem.

1. During 5 school days, Charles worked 80 mathematics problems. He worked the same number of problems each day. How many problems did he work each day?

He worked _____ problems each day.

2. On the kitchen floor there are 9 rows of tile and 18 tiles in each row. How many tiles are there on the kitchen floor?

There are _____ tiles.

3. An 8-story apartment building is 112 feet high. Each story is the same height. What is the height of each story?

Each story is _____ feet high.

4. Each sheet of plasterboard weighs 45 pounds. What would be the total weight of 8 sheets?

The total weight would be _____ pounds.

5. There were 14,325 cars assembled in 5 days. The same number of cars were assembled each day. How many cars were assembled each day?

There were _____ cars assembled each day.

6. The seating capacity of the Sports Arena is 8,560. The seats are arranged in 4 sections of the same size. How many seats are there in each section?

There are _____ seats in each section.

7. The school library has 8,096 books. The same number of books are stored along each of the 4 walls. How many books are along each wall?

There are _____ books along each wall.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7 My score: _____

NAME _____

Multiplication

$$\begin{array}{r} 321 \\ \times 3 \\ \hline 963 \end{array}$$

Check $3 \overline{) 963}$

$$\begin{array}{r} 321 \\ 3 \overline{) 963} \\ \underline{900} \\ 63 \\ \underline{60} \\ 3 \\ \underline{3} \\ 0 \end{array}$$

To check $3 \times 321 = 963$,

divide 963 by 3.
The answer should be

321.

$$\begin{array}{r} 1243 \\ \times 4 \\ \hline 4972 \end{array}$$

Check $4 \overline{) 4972}$

$$\begin{array}{r} 1243 \\ 4 \overline{) 4972} \\ \underline{4000} \\ 972 \\ \underline{800} \\ 172 \\ \underline{160} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

To check $4 \times 1243 = 4972$,

divide _____ by _____.
The answer should be

_____.

Multiply. Check each answer.

a

$$\begin{array}{r} 1. \quad 231 \\ \times 3 \\ \hline \end{array}$$

b

$$\begin{array}{r} 678 \\ \times 7 \\ \hline \end{array}$$

c

$$\begin{array}{r} 975 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 1234 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2675 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1257 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 22302 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17582 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13543 \\ \times 7 \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 9 My score: _____

Problems

Solve each problem. Check each answer.

1. Each of the 4 members of a relay team runs 440 yards. What is the total distance the team will run?

The team will run _____ yards.

2. Herman delivers 165 papers each day. How many papers does he deliver in a week?

He delivers _____ papers in a week.

3. There are 125 nails in a 1-pound pack. How many nails will be in a 5-pound pack?

_____ nails will be in a 5-pound pack.

4. It takes 1,200 trading stamps to fill a book. How many stamps will it take to fill 6 books?

It will take _____ stamps.

5. A contractor estimated that it would take 2,072 bricks to build each of the 4 walls of a new house. How many bricks would it take to build all 4 walls?

It would take _____ bricks.

6. There are 7 cars on a transport truck. Each car weighs 3,650 pounds. What is the total weight of the cars?

The total weight is _____ pounds.

7. Each car in problem 6 has a value of \$2,845. What is the total value of the cars?

The total value is \$_____.

8. Mr. Brooks travels 1,285 miles each month. How many miles will he travel in 6 months?

He will travel _____ miles.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8 My score: _____

NAME _____

Division

$$\begin{array}{r}
 442 \\
 3 \overline{)1326} \\
 \underline{1200} \\
 126 \\
 \underline{120} \\
 6 \\
 \underline{6} \\
 0
 \end{array}$$

Check 442
 $\times 3$
 $\hline 1326$

To check $1326 \div 3 = 442$,multiply 442 by 3 .
The answer should be1326.

$$\begin{array}{r}
 3453 \\
 5 \overline{)17265} \\
 \underline{15000} \\
 2265 \\
 \underline{2000} \\
 265 \\
 \underline{250} \\
 15 \\
 \underline{15} \\
 0
 \end{array}$$

Check 3453
 $\times 5$
 $\hline 17265$

To check $17265 \div 5 = 3453$,multiply 3453 by ____.
The answer should be .

Divide. Check each answer.

*a**b**c*

1. $3 \overline{)246}$

$5 \overline{)675}$

$9 \overline{)981}$

2. $9 \overline{)1566}$

$7 \overline{)7847}$

$4 \overline{)6256}$

3. $3 \overline{)17127}$

$7 \overline{)14357}$

$2 \overline{)98578}$

Check your answers. Record your score.

Perfect score: 9 My score: _____

Problems

Solve each problem.

1. A plane traveled 900 miles in 2 hours. The same distance was traveled each hour. How many miles were traveled each hour?

_____ miles were traveled each hour.

2. The school lunchroom served 840 lunches in 2 hours. The same number of lunches was served each hour. How many lunches were served each hour?

_____ lunches were served each hour.

3. A company has 7,200 employees. There are 8 plants with the same number of employees at each plant. How many employees are at each plant?

There are _____ employees at each plant.

4. The Ace Company is going to ship 2,811 pounds in 3 shipments. Each shipment will weigh the same. How much will each shipment weigh?

Each shipment will weigh _____ pounds.

5. A company used 5 trucks to deliver 15,900 pounds of merchandise. Each truck carried the same amount. How many pounds were carried on each truck?

_____ pounds were carried on each truck.

6. A voting district consists of 4 wards which have the same number of voters. There are 29,676 voters in the district. How many voters are in each ward?

There are _____ voters in each ward.

7. At the soup factory, 10,896 cans are filled in 3 hours. The same number of cans are filled each hour. How many cans are filled each hour?

_____ cans are filled each hour.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7

My score: _____

NAME _____

Division

$$\begin{array}{r}
 2636 \text{ r}5 \\
 7 \overline{)18457} \\
 \underline{14000} \\
 4457 \\
 \underline{4200} \\
 257 \\
 \underline{210} \\
 47 \\
 \underline{42} \\
 5
 \end{array}$$

$$\begin{array}{r}
 \text{Check } 2636 \\
 \quad \times 7 \\
 \hline
 18452 \\
 \quad + 5 \\
 \hline
 18457
 \end{array}$$

To check $18457 \div 7 = 2636 \text{ r}5$,

multiply _____ by 7.

Then add ____ to this product.

The answer should be _____.

Divide. Check each answer.

*a**b**c*

1. $2 \overline{)157}$

$5 \overline{)679}$

$4 \overline{)897}$

2. $3 \overline{)1349}$

$6 \overline{)7855}$

$7 \overline{)9463}$

3. $9 \overline{)12345}$

$8 \overline{)96547}$

$6 \overline{)97855}$

Check your answers. Record your score.

Perfect score: 9

My score: _____

Problems

Solve each problem. Check each answer.

1. A marching band has 126 members. How many rows of 8 members each can be formed? How many members will be left?

They can form _____ rows of 8 members each.

There will be _____ members left.

2. A certain airliner has 108 seats. The seats are arranged in 5-seat rows. How many 5-seat rows are there? How many other seats are there?

There are _____ 5-seat rows.

There are _____ other seats.

3. There were 1,006 Girl Scouts in a parade. They marched in rows of 8 each. How many full rows were there? How many were in the partial row?

There were _____ full rows.

There were _____ scouts in the partial row.

4. There will be 1,012 people at a large banquet. Six people are to be seated at each table. How many tables will be filled? How many people will be seated at the partially filled table?

_____ tables will be filled.

_____ people will be at the partially filled table.

5. There were 10,425 bottles of root beer purchased yesterday. How many 6-bottle cartons can be filled? How many bottles would be left over?

_____ cartons could be filled.

_____ bottles would be left over.

1.

2.

3.

4.

5.

Check your answers. Record your score.

Perfect score: 10

My score: _____

NAME _____

Division

Divide. Check each answer.

a

b

c

1. $3 \overline{) 26}$

$4 \overline{) 89}$

$6 \overline{) 72}$

2. $5 \overline{) 265}$

$7 \overline{) 389}$

$8 \overline{) 957}$

3. $2 \overline{) 1955}$

$9 \overline{) 6786}$

$5 \overline{) 6753}$

4. $7 \overline{) 17345}$

$6 \overline{) 48576}$

$8 \overline{) 96754}$

Check your answers. Record your score.

Perfect score: 12

My score: _____

Problems

Solve each problem.

1. Marge has 75 cents. What is the greatest number of 6-cent stamps she can purchase? How much money will she have left?

She can purchase _____ stamps.

She will have _____ cents left.

2. It takes Jesse 2 hours to deliver 126 papers. Suppose he delivers the same number of papers each hour. How many papers can he deliver in 1 hour?

He can deliver _____ papers in 1 hour.

3. How many 6-foot tables can be placed along one wall of a lunchroom that is 220 feet long? How much space would be unused?

_____ tables can be placed along the wall.

There will be _____ feet of unused space.

4. Each member of a relay team runs the same distance. How far would each of the 4 members of a mile relay team run? (1 mile = 1,760 yards)

Each member would run _____ yards.

5. An ocean liner can make a 2,756-mile voyage in 4 days. Suppose the same distance is traveled each day. How many miles would be traveled each day?

_____ miles would be traveled each day.

6. A weather balloon rises at a rate of 8 feet per second. How many seconds would it take the balloon to rise 10,000 feet?

It would take _____ seconds.

7. There are 2 identical sections of bleachers in the football stadium. The total seating capacity of these sections is 29,856. How many people can be seated in each section?

_____ people can be seated in each section.

Check your answers. Record your score.

Perfect score: 9

My score: _____

NAME _____

TEST—Multiplication and Division

Complete each of the following.

a

1. $4 \times 63 = 252$, so $252 \div 4 =$ _____.

2. $72 \div 3 = 24$, so $3 \times 24 =$ _____.

3. $216 \div 6 = 36$, so _____ $\times 36 = 216$.

4. $1200 \div 8 = 150$, so $8 \times$ _____ $= 1200$.

b

$5 \times 235 = 1175$, so _____ $\div 5 = 235$.

$9 \times 1243 = 11187$, so $11187 \div$ _____ $= 1243$.

$6455 \div 5 = 1291$, so $5 \times$ _____ $= 6455$.

$5 \times 265 = 1325$, so $1325 \div 5 =$ _____.

Multiply or divide. Check each answer.

a

5.
$$\begin{array}{r} 312 \\ \times 3 \\ \hline \end{array}$$

b

$$\begin{array}{r} 2134 \\ \times 2 \\ \hline \end{array}$$

c

$$\begin{array}{r} 10320 \\ \times 4 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 636 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6754 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12341 \\ \times 8 \\ \hline \end{array}$$

7. $2 \overline{)186}$

$5 \overline{)1534}$

$9 \overline{)18275}$

8. $4 \overline{)477}$

$6 \overline{)6714}$

$8 \overline{)96424}$

Check your answers. Record your score.

Perfect score: 20

My score: _____

PRE-TEST—Measurement

Complete the following.

a

b

1. 3 lb. = _____ oz.

3 T. = _____ lb.

2. 3 min. = _____ sec.

2 hr. = _____ min.

3. 4 da. = _____ hr.

6 ft. = _____ yd.

4. 3 yd. = _____ ft.

4 yd. = _____ in.

5. 6 ft. = _____ in.

6 pt. = _____ c.

6. 8 qt. = _____ pt.

4 gal. = _____ qt.

7. 4 c. = _____ pt.

8 pt. = _____ qt.

8. 16 qt. = _____ gal.

10 c. = _____ pt.

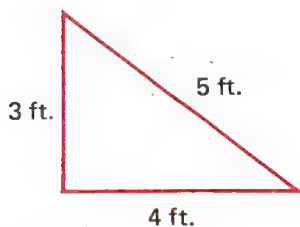
Find the perimeter of each figure below.

a

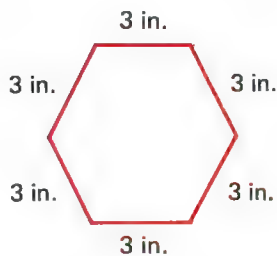
b

c

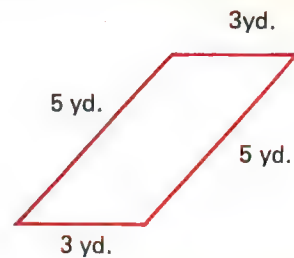
9.



_____ feet

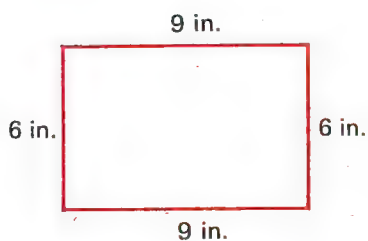


_____ inches

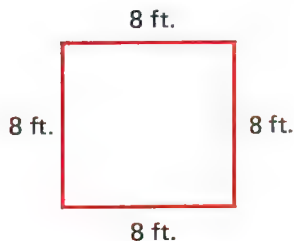


_____ yards

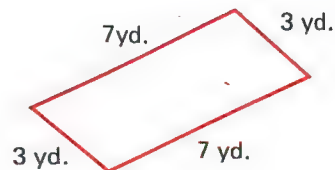
10.



_____ inches



_____ feet



_____ yards

Check your answers. Record your score.

Perfect score: 22

My score: _____

Measurement

16 ounces (oz.) = 1 pound (lb.)

2000 lb. = 1 ton (T.)

5 lb. = ? oz.

Since 1 lb. = 16 oz.,

(5 × 1) lb. = (5 × 16) oz.

5 lb. = 80 oz.

60 seconds (sec.) = 1 minute (min.)

60 min. = 1 hour (hr.)

24 hr. = 1 day (da.)

3 hr. = ? min.

Since 1 hr. = 60 min.,

(3 × 1) hr. = (3 × 60) min.

3 hr. = min.

Complete the following.

*a**b*1. 2 lb. = oz.6 T. = lb.2. 2 T. = lb.4 lb. = oz.3. 7 lb. = oz.5 T. = lb.4. 2 hr. = min.8 min. = sec.5. 2 da. = hr.5 hr. = min.6. 5 min. = sec.3 da. = hr.7. 12 hr. = min.10 lb. = oz.8. 6 min. = sec.4 T. = lb.9. 5 da. = hr.10 min. = sec.10. 15 lb. = oz.24 hr. = min.11. 16 T. = lb.7 da. = hr.12. 4 min. = sec.9 lb. = oz.

Check your answers. Record your score.

Perfect score: 24

My score:

Problems

Solve each problem.

1. Mrs. Turner purchased a 5-pound roast. How many ounces did the roast weigh?

The roast weighed _____ ounces.

2. A runner ran the mile in 4 minutes. How many seconds did it take him to run the mile?

He ran the mile in _____ seconds.

3. The double feature at the Bijou Theater lasted 3 hours. How many minutes did the double feature last?

The double feature lasted _____ minutes.

4. There are 30 tons of merchandise on a freight car. How many pounds of merchandise are on the freight car?

There are _____ pounds of merchandise.

5. How many hours are there in a week?

There are _____ hours in a week.

6. Mrs. Adamson purchased a 4-pound box of detergent. How many ounces of detergent did she purchase?

She purchased _____ ounces of detergent.

7. The load limit on a small bridge is 8 tons. What is the load limit in pounds?

The load limit is _____ pounds.

8. A skin diver has learned to hold his breath for 2 minutes. How many seconds can he hold his breath?

He can hold his breath for _____ seconds.

9. The ball game lasted 2 hours. How long did the game last in minutes?

The game lasted _____ minutes.

1.

2.

3.

4.

5.

6.

7.

8.

9.

Check your answers. Record your score.

Perfect score: 9

My score: _____

Measurement

12 inches (in.) = 1 foot (ft.)

3 ft. = 1 yard (yd.)

36 in. = 1 yd.

9 ft. = ? yd.

Since 3 ft. = 1 yd.,

9 ft. = $(9 \div 3)$ yd.

9 ft. = 3 yd.

2 ft. = ? in.

Since 1 ft. = 12 in.,

(2×1) ft. = (2×12) in.

2 ft. = in.

Complete the following.

*a**b*

1. 3 ft. = in.

12 ft. = yd.

2. 2 yd. = in.

5 yd. = in.

3. 5 ft. = in.

7 ft. = in.

4. 12 yd. = ft.

6 yd. = in.

5. 15 ft. = yd.

27 ft. = yd.

6. 7 yd. = ft.

9 yd. = ft.

7. 9 ft. = in.

12 ft. = in.

8. 15 yd. = ft.

75 ft. = yd.

9. 60 ft. = yd.

7 yd. = in.

10. 3 yd. = in.

300 ft. = yd.

11. 8 ft. = in.

9 yd. = in.

12. 10 yd. = ft.

100 yd. = ft.

Check your answers. Record your score.

Perfect score: 24

My score:

Problems

Solve each problem.

1. Mr. Jefferson is 6 feet tall. What is his height in inches? 1.

His height is _____ inches.

2. In baseball the distance between home plate and first base is 90 feet. What is this distance in yards? 2.

The distance is _____ yards.

3. Jeromy has 150 yards of kite string. How many feet of kite string does he have? 3.

He has _____ feet of kite string.

4. A trench is 2 yards deep. What is the depth of the trench in inches? 4.

The trench is _____ inches deep.

5. There are 5,280 feet in a mile. How many yards are there in a mile? 5.

There are _____ yards in a mile.

6. One of the pro quarterbacks can throw a football 60 yards. How many feet can he throw the football? 6.

He can throw the football _____ feet.

7. Marcena has 8 feet of ribbon. How many inches of ribbon does she have? 7.

She has _____ inches of ribbon.

8. A rope is 3 yards long. What is the length of the rope in inches? 8.

The rope is _____ inches long.

9. A certain car is 6 feet wide. What is the width of the car in inches? 9.

The car is _____ inches wide.

Check your answers. Record your score.

Perfect score: 9 My score: _____

Measurement

2 cups (c.) = 1 pint (pt.)

2 pt. = 1 quart (qt.)

4 qt. = 1 gallon (gal.)

6 qt. = ? pt.

Since 1 qt. = 2 pt.,
 $(6 \times 1) \text{ qt.} = (6 \times 2) \text{ pt.}$

6 qt. = _____ pt.

12 qt. = ? gal.

Since 4 qt. = 1 gal.,
 $12 \text{ qt.} = (12 \div 4) \text{ gal.}$

12 qt. = _____ gal.

Complete the following.

*a**b*

1. 6 c. = _____ pt.

12 qt. = _____ pt.

2. 4 pt. = _____ qt.

8 gal. = _____ qt.

3. 8 qt. = _____ gal.

6 pt. = _____ c.

4. 8 pt. = _____ c.

24 qt. = _____ gal.

5. 10 qt. = _____ pt.

18 pt. = _____ qt.

6. 5 gal. = _____ qt.

10 c. = _____ pt.

7. 10 gal. = _____ qt.

32 qt. = _____ gal.

8. 12 pt. = _____ qt.

18 c. = _____ pt.

9. 10 pt. = _____ c.

32 pt. = _____ qt.

10. 28 qt. = _____ gal.

12 gal. = _____ qt.

11. 16 qt. = _____ pt.

28 qt. = _____ pt.

12. 8 c. = _____ pt.

16 pt. = _____ c.

Check your answers. Record your score.

Perfect score: 24

My score: _____

Problems

Solve each problem.

1. There are 6 pints of lemonade in a picnic cooler. How many 1-cup containers can be filled by using the lemonade in the cooler?

_____ containers can be filled.

2. The capacity of the cooling system on a certain car is 16 quarts. What is the capacity in gallons?

The capacity is _____ gallons.

3. What is the capacity in pints of the cooling system in problem 2?

The capacity is _____ pints.

4. The milkman delivered 376 quarts of milk this morning. How many gallons of milk was this?

It was _____ gallons of milk.

5. How many quarts of water would be needed to fill a 10-gallon aquarium?

_____ quarts would be needed.

6. The lunchroom served 168 pints of milk at lunch. How many quarts of milk was this?

It was _____ quarts of milk.

7. There are 12 cups of liquid in a container. How many 1-pint jars can be filled by using the liquid in the container?

_____ jars can be filled.

8. There are 6 pints of bleach in a container. How many quarts of bleach are in the container?

There are _____ quarts of bleach in the container.

1.

2.

3.

4.

5.

6.

7.

8.

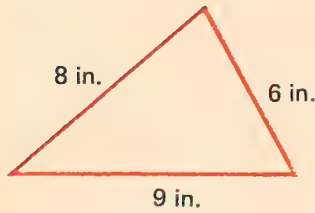
Check your answers. Record your score.

Perfect score: 8

My score: _____

Perimeter

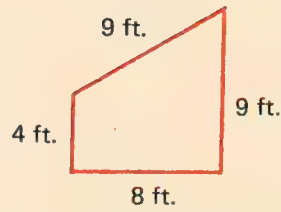
The distance around a figure is called its **perimeter**.



$$p = 8 + 6 + 9$$

$$= 23$$

The perimeter is 23 inches.



$$p = 4 + 9 + 9 + 8$$

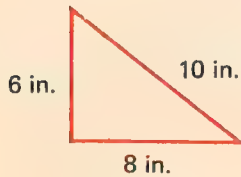
$$= \underline{\hspace{2cm}}$$

The perimeter is _____ feet.

Find the perimeter of each figure below.

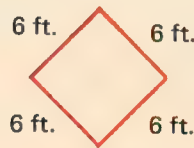
a

1.



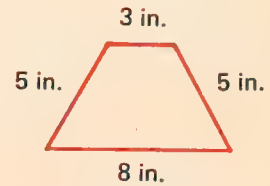
_____ inches

b



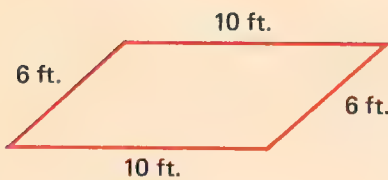
_____ feet

c



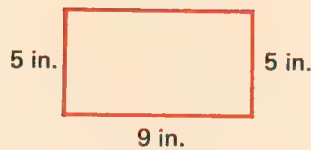
_____ inches

2.

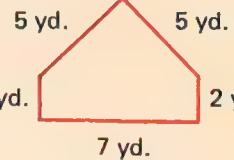


_____ feet

9 in.

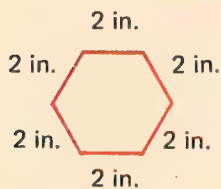


_____ inches



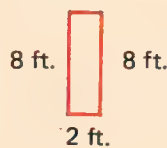
_____ yards

3.

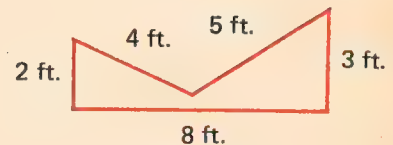


_____ inches

2 ft.

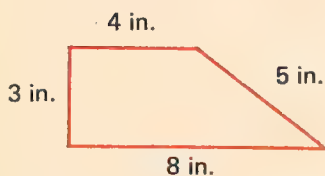


_____ feet

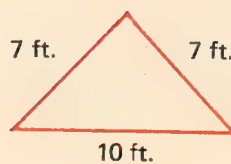


_____ feet

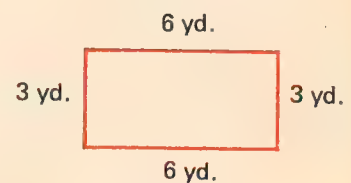
4.



_____ inches



_____ feet



_____ yards

Check your answers. Record your score.

Perfect score: 12

My score: _____

Problems

Solve each problem.

1. A baseball diamond is 90 feet on each side. What is the perimeter of a baseball diamond?

The perimeter is _____ feet.

2. Mrs. Gunter has a triangular-shaped flower bed. The sides are 8 feet, 7 feet, and 9 feet. How many feet of edging will she need to go around the flower bed?

She will need _____ feet of edging.

3. Mr. Sims wants to build a fence around his lot. The sides of his lot are 50 feet, 120 feet, 120 feet, and 80 feet. How many feet of fencing will he need?

He will need _____ feet of fencing.

4. A large tabletop has 6 sides. Each side is 3 feet long. How many feet of crepe paper will be needed to make a border for the edges of the tabletop?

_____ feet of crepe paper will be needed.

5. The length of the sides of a playing field are 150 yards, 80 yards, 150 yards and 80 yards. What is the perimeter of the field?

The perimeter is _____ yards.

6. The edges of a triangular piece of poster board are 32 inches, 28 inches, and 36 inches. What is the perimeter of the piece of poster board?

The perimeter is _____ inches.

7. The sides of a picture frame are 8 inches, 12 inches, 8 inches, and 12 inches. What is the perimeter of the picture frame?

The perimeter is _____ inches.

1.

2.

3.

4.

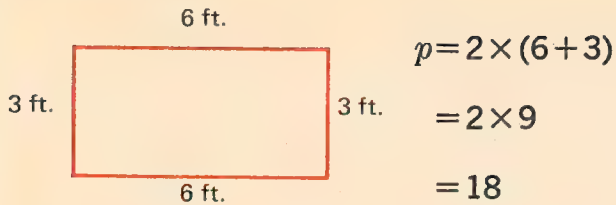
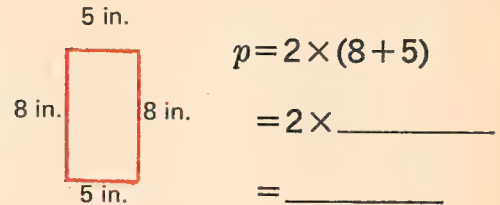
5.

6.

7.

Check your answers. Record your score.

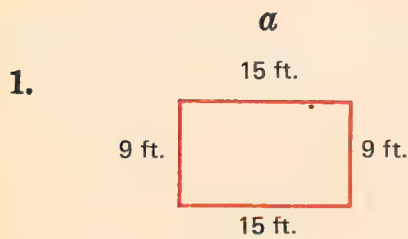
Perfect score: 7 My score: _____

PerimeterThe perimeter is 18 feet.

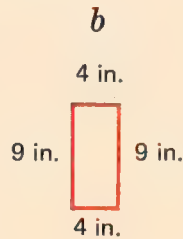
The perimeter is _____ inches.

To determine the perimeter of a rectangle,
 (1) find the sum of the measures of the length and width and
 (2) multiply this sum by 2.

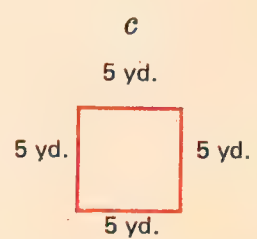
Find the perimeter of each rectangle below.



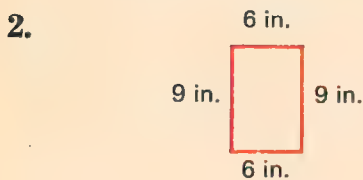
_____ feet



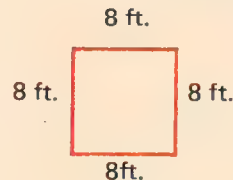
_____ inches



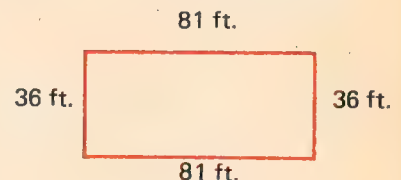
_____ yards



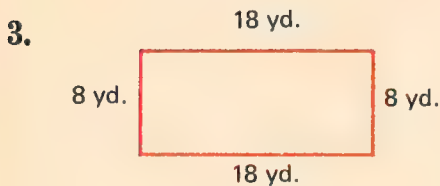
_____ inches



_____ feet



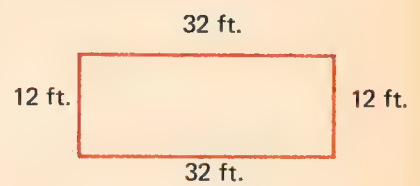
_____ feet



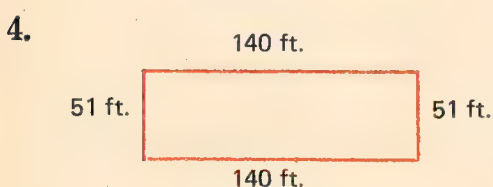
_____ yards



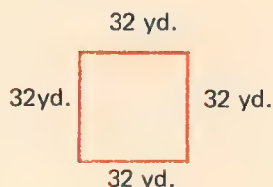
_____ inches



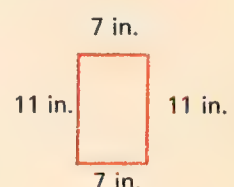
_____ feet



_____ feet



_____ yards



_____ inches

Check your answers. Record your score.

Perfect score: 12

My score: _____

Problems

Solve each problem.

1. Mr. Champney's garden is shaped like a rectangle. The rectangle is 24 feet long and 16 feet wide. What is the perimeter of his garden?

The perimeter of his garden is _____ feet.

2. A rectangular desk top is 24 inches long and 16 inches wide. What is the perimeter of the desk top?

The perimeter of the desk top is _____ inches.

3. A flower garden is shaped like a rectangle. The length of the rectangle is 40 feet and the width is 30 feet. How many feet of edging will be needed to go around the garden?

_____ feet of edging will be needed.

4. A rectangular window pane is 28 inches long and 24 inches wide. What is the perimeter of the window pane?

The perimeter is _____ inches.

5. Mrs. Richardson has a rectangular-shaped mirror which is 4 feet long and 3 feet wide. How many feet of ribbon will she need to go around the edges of the mirror?

She will need _____ feet of ribbon.

6. A rectangular picture frame is 32 inches long and 24 inches wide. What is the perimeter of the picture frame?

The perimeter is _____ inches.

7. A football field is shaped like a rectangle. The length of the field is 360 feet and the width is 160 feet. What is the perimeter of a football field?

The perimeter is _____ feet.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7

My score: _____

TEST—Measurement

Complete the following.

*a**b*

1. 5 lb. = _____ oz.

6 ft. = _____ in.

2. 6 min. = _____ sec.

8 c. = _____ pt.

3. 6 pt. = _____ qt.

12 ft. = _____ yd.

4. 3 yd. = _____ in.

4 T. = _____ lb.

5. 9 qt. = _____ pt.

4 pt. = _____ c.

6. 4 da. = _____ hr.

5 yd. = _____ ft.

7. 9 ft. = _____ yd.

5 gal. = _____ qt.

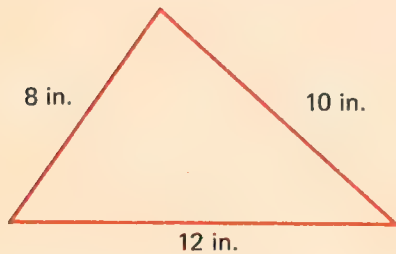
8. 12 qt. = _____ gal.

3 hr. = _____ min.

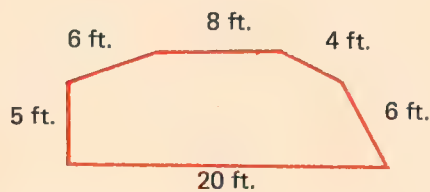
Find the perimeter of each figure below.

*a**b*

9.

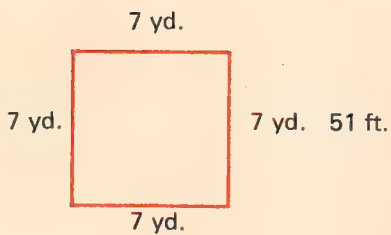


_____ inches

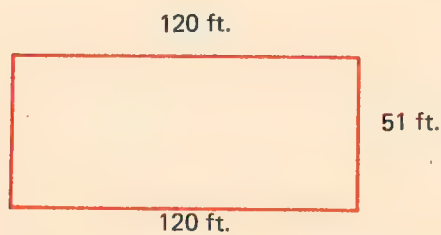


_____ feet

10.



_____ yards



_____ feet

Check your answers. Record your score

Perfect score: 20

My score: _____

PRE-TEST—Review

Complete the following as indicated.

a
1. $\begin{array}{r} 68 \\ +7 \\ \hline \end{array}$

b
 $\begin{array}{r} 34¢ \\ +37¢ \\ \hline \end{array}$

c
 $\begin{array}{r} \$2.16 \\ +3.78 \\ \hline \end{array}$

d
 $\begin{array}{r} 173 \\ 263 \\ +678 \\ \hline \end{array}$

e
 $\begin{array}{r} 5273 \\ 4167 \\ +1234 \\ \hline \end{array}$

2. $\begin{array}{r} 47 \\ -9 \\ \hline \end{array}$

$\begin{array}{r} 69¢ \\ -43¢ \\ \hline \end{array}$

$\begin{array}{r} \$3.79 \\ -1.83 \\ \hline \end{array}$

$\begin{array}{r} 647 \\ -269 \\ \hline \end{array}$

$\begin{array}{r} 5273 \\ -1569 \\ \hline \end{array}$

3. $\begin{array}{r} 76 \\ \times 4 \\ \hline \end{array}$

$\begin{array}{r} 27¢ \\ \times 3 \\ \hline \end{array}$

$\begin{array}{r} \$1.29 \\ \times 5 \\ \hline \end{array}$

$\begin{array}{r} 3213 \\ \times 27 \\ \hline \end{array}$

$\begin{array}{r} 443 \\ \times 256 \\ \hline \end{array}$

4. $7 \overline{)59}$

$5 \overline{)675}$

$2 \overline{)1673}$

$6 \overline{)7248}$

$3 \overline{)27691}$

Complete the following.

a
5. 3 lb. = _____ oz.

b
2 hr. = _____ min.

6. 3 ft. = _____ in.

9 ft. = _____ yd.

7. 6 pt. = _____ c.

12 qt. = _____ gal.

Complete the following as shown.

a
8. XVI = 16

b
XLIX = _____

c
CCXVII = _____

9. 29 = XXIX

93 = _____

248 = _____

Check your answers. Record your score.

Perfect score: 30

My score: _____

Addition and Subtraction

Add or subtract.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 14 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +23 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +39 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +53 \\ \hline \end{array}$
2.	$\begin{array}{r} 26 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ -4 \\ \hline \end{array}$
3.	$\begin{array}{r} 37 \\ +12 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ +32 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ +23 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ +27 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ +65 \\ \hline \end{array}$	$\begin{array}{r} 85 \\ +93 \\ \hline \end{array}$
4.	$\begin{array}{r} 49 \\ -14 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ -34 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ -43 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ -38 \\ \hline \end{array}$	$\begin{array}{r} 55 \\ -26 \\ \hline \end{array}$
5.	$\begin{array}{r} 341 \\ +132 \\ \hline \end{array}$	$\begin{array}{r} 216 \\ +357 \\ \hline \end{array}$	$\begin{array}{r} 461 \\ +173 \\ \hline \end{array}$	$\begin{array}{r} 632 \\ +411 \\ \hline \end{array}$	$\begin{array}{r} 1732 \\ +114 \\ \hline \end{array}$	$\begin{array}{r} 4341 \\ +2537 \\ \hline \end{array}$
6.	$\begin{array}{r} 134 \\ -13 \\ \hline \end{array}$	$\begin{array}{r} 257 \\ -63 \\ \hline \end{array}$	$\begin{array}{r} 427 \\ -312 \\ \hline \end{array}$	$\begin{array}{r} 671 \\ -234 \\ \hline \end{array}$	$\begin{array}{r} 703 \\ -121 \\ \hline \end{array}$	$\begin{array}{r} 627 \\ -268 \\ \hline \end{array}$
7.	$\begin{array}{r} 14 \\ 41 \\ +23 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ 25 \\ +57 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ 52 \\ +70 \\ \hline \end{array}$	$\begin{array}{r} 113 \\ 240 \\ +425 \\ \hline \end{array}$	$\begin{array}{r} 173 \\ 242 \\ +325 \\ \hline \end{array}$	$\begin{array}{r} 234 \\ 982 \\ +471 \\ \hline \end{array}$
8.	$\begin{array}{r} 4834 \\ -321 \\ \hline \end{array}$	$\begin{array}{r} 7843 \\ -3216 \\ \hline \end{array}$	$\begin{array}{r} 8351 \\ -3161 \\ \hline \end{array}$	$\begin{array}{r} 7592 \\ -3741 \\ \hline \end{array}$	$\begin{array}{r} 2727 \\ -1769 \\ \hline \end{array}$	$\begin{array}{r} 3407 \\ -2138 \\ \hline \end{array}$
9.	$\begin{array}{r} 1314 \\ 2120 \\ +3253 \\ \hline \end{array}$	$\begin{array}{r} 2324 \\ 4011 \\ +7532 \\ \hline \end{array}$	$\begin{array}{r} 2561 \\ 1432 \\ +3214 \\ \hline \end{array}$	$\begin{array}{r} 3124 \\ 2375 \\ +1767 \\ \hline \end{array}$	$\begin{array}{r} 6149 \\ 3228 \\ +1336 \\ \hline \end{array}$	$\begin{array}{r} 6571 \\ 7297 \\ +8528 \\ \hline \end{array}$

Check your answers. Record your score.

Perfect score: 54

My score: _____

Problems

Solve each problem.

1. In the election for alderman, Andrews received 987 votes and McCarver received 696 votes. There were 213 votes cast for other candidates. How many votes were cast?

There were _____ votes cast.

2. Mr. Ramirez weighs 173 pounds. His son Rico weighs 85 pounds. What is the difference between their weights?

The difference is _____ pounds.

3. Last week in her bowling league, Mrs. Gunter made the following scores: 149; 153; and 165. What was her total score?

Her total score was _____.

4. The air distance from Chicago to Miami is 1,188 miles and to Los Angeles 1,745 miles. How many more miles is it from Chicago to Los Angeles than from Chicago to Miami?

It is _____ miles more from Chicago to Los Angeles.

5. There were 875 windows washed at the Baker Hotel, 734 at the Union Building, and 649 at the Civic Tower. How many windows were washed at these buildings?

_____ windows were washed.

6. The Perrys drove their car 9,746 miles last year. The Buckleys drove their car 7,697 miles. How much farther did the Perrys drive than the Buckleys?

They drove _____ miles farther.

7. The attendance at the Star Theater over a 3-day period was as follows: 547; 947; and 649. What was the total attendance during this period?

The attendance was _____.

Check your answers. Record your score.

Perfect score: 7

My score: _____

NAME _____

Multiplication

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	$\begin{array}{r} 20 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ \times 3 \\ \hline \end{array}$

2.	$\begin{array}{r} 300 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 600 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 212 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 114 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 131 \\ \times 5 \\ \hline \end{array}$
----	--	--	--	--	--

3.	$\begin{array}{r} 523 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 504 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 136 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 753 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 678 \\ \times 9 \\ \hline \end{array}$
----	--	--	--	--	--

4.	$\begin{array}{r} 3000 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 7000 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1124 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3521 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 7358 \\ \times 8 \\ \hline \end{array}$
----	---	---	---	---	---

5.	$\begin{array}{r} 3124 \\ \times 20 \\ \hline \end{array}$	$\begin{array}{r} 4213 \\ \times 12 \\ \hline \end{array}$	$\begin{array}{r} 3213 \\ \times 72 \\ \hline \end{array}$	$\begin{array}{r} 6753 \\ \times 46 \\ \hline \end{array}$	$\begin{array}{r} 7563 \\ \times 98 \\ \hline \end{array}$
----	--	--	--	--	--

6.	$\begin{array}{r} 231 \\ \times 300 \\ \hline \end{array}$	$\begin{array}{r} 134 \\ \times 212 \\ \hline \end{array}$	$\begin{array}{r} 243 \\ \times 456 \\ \hline \end{array}$	$\begin{array}{r} 526 \\ \times 708 \\ \hline \end{array}$	$\begin{array}{r} 835 \\ \times 956 \\ \hline \end{array}$
----	--	--	--	--	--

Check your answers. Record your score.

Perfect score: 30

My score: _____

Problems

Solve each problem.

1. A grocer used 6 cases of canned goods to build a display. There were 24 cans in each case. How many cans were used in the display?

_____ cans were used in the display.

2. The baseball league has 8 teams with 18 boys on each team. How many boys are in the league?

There are _____ boys in the league.

3. A gallon of paint will cover 480 square feet. How many square feet can be covered if 7 gallons of paint are used?

_____ square feet can be covered.

4. A jet plane can travel 625 miles in one hour. At that rate, how many miles can the jet travel in 7 hours?

The jet can travel _____ miles.

5. Mr. Anthony drives 1,535 miles each month. How many miles will he drive in 9 months?

He will drive _____ miles.

6. Mr. Jefferson delivered 32 cases of cola to the supermarket. There are 24 bottles to a case. How many bottles of cola did he deliver?

He delivered _____ bottles of cola.

7. The newsstand sells 1,756 magazines each month. How many magazines will be sold in 12 months?

_____ magazines will be sold.

8. There are 144 oranges in a crate. How many oranges are there in 112 such crates?

There are _____ oranges.

1.

2.

3.

4.

5.

6.

7.

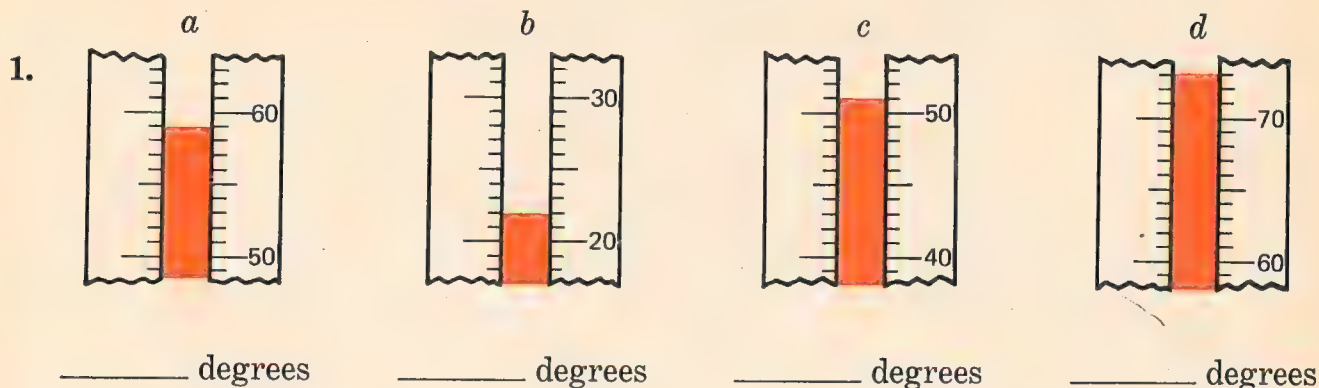
8.

Check your answers. Record your score.

Perfect score: 8 My score: _____

Temperature, Money, and Roman Numerals

Record the temperature reading shown on each thermometer below.



Add or subtract.

2. *a*
$$\begin{array}{r} 6\ 7\text{¢} \\ +2\ 2\text{¢} \\ \hline \end{array}$$

b
$$\begin{array}{r} 9\ 8\text{¢} \\ +4\ 3\text{¢} \\ \hline \end{array}$$

c
$$\begin{array}{r} \$.7\ 5 \\ +.6\ 3 \\ \hline \end{array}$$

d
$$\begin{array}{r} \$1.2\ 7 \\ 1.4\ 9 \\ +.9\ 8 \\ \hline \end{array}$$

e
$$\begin{array}{r} \$2.4\ 1 \\ 6.7\ 5 \\ +9.8\ 9 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7\ 9\text{¢} \\ -4\ 3\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 6\ 7\text{¢} \\ -2\ 9\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} \$.8\ 3 \\ -.3\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} \$8.6\ 7 \\ -4.2\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} \$7.4\ 3 \\ -2.9\ 5 \\ \hline \end{array}$$

Multiply.

4.
$$\begin{array}{r} 2\ 4\text{¢} \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 5\text{¢} \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \$.9\ 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \$1.1\ 9 \\ \times 2\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} \$8.9\ 5 \\ \times 1\ 7 \\ \hline \end{array}$$

Complete the following as shown.

a 5. XIX = 19

b 6. XCVI = _____

c 7. 27 = XXVII

8. 95 = _____

XLIV = _____

CXXI = _____

46 = _____

119 = _____

LXVII = _____

CCV = _____

64 = _____

253 = _____

Check your answers. Record your score.

Perfect score: 29

My score: _____

Problems

Solve each problem.

1. The high temperature for the day was 78 degrees. The low temperature was 49 degrees. What is the difference between these two temperatures?

The difference is _____ degrees.

2. During a 3-week period Mrs. Douglas spent the following amounts on groceries: \$22.19; \$34.15; and \$27.52. How much did she spend for groceries during this period?

She spent _____.

3. Mr. Barron is considering buying a suit for \$79.95 or a sports coat for \$28.98. What is the difference between the costs of these items?

The difference is _____.

4. What is the total cost of 6 sport shirts at \$5.98 each?

The total cost is _____.

5. The average noon temperature this spring was 51 degrees. The average noon temperature for this summer is expected to be 24 degrees higher. What is the expected average noon temperature for this summer?

The expected average noon temperature is

_____ degrees.

6. Pat made the following purchases at the market: bread 39¢, soup 25¢, canned peas 19¢, and salt 15¢. What was the total amount of her purchases?

The total amount was _____.

7. Mrs. Saunders purchased a dress that was on sale for \$19.95. The regular price of the dress was \$28.67. How much money did Mrs. Saunders save?

She saved _____.

8. What is the total cost of 6 pairs of socks at 79¢ a pair?

The total cost is _____.

1.

2.

3.

4.

5.

6.

7.

8.

Check your answers. Record your score.

Perfect score: 8

My score: _____

NAME _____

Division

Divide.

a

b

c

d

1. $9 \overline{)81}$

$6 \overline{)59}$

$7 \overline{)44}$

$3 \overline{)87}$

2. $8 \overline{)136}$

$5 \overline{)364}$

$3 \overline{)348}$

$4 \overline{)969}$

3. $5 \overline{)2485}$

$9 \overline{)6734}$

$2 \overline{)7374}$

$7 \overline{)9726}$

4. $6 \overline{)16842}$

$2 \overline{)15731}$

$7 \overline{)84497}$

$4 \overline{)96853}$

Check your answers. Record your score.

Perfect score: 16

My score: _____

Problems

Solve each problem.

1. There are 34 desks in Mrs. Cosgrove's room. The desks are to be arranged in rows. How many rows of 5 desks each can be formed? How many desks will not be in a 5-desk row?

_____ rows of 5 desks each can be formed.

_____ desks will not be in a 5-desk row.

2. A certain type of rustic fence comes in 6-foot sections. How many sections will it take to put a fence along the back of a lot which is 78 feet wide?

It would take _____ sections.

3. Bert has 134 pop bottles. How many 6-bottle cartons can he fill? How many bottles will be left?

_____ cartons can be filled.

_____ bottles will be left.

4. There are 2,432 people who work in the offices on the first 8 floors of an office building. The same number of people work on each floor. How many people work on each floor?

_____ people work on each floor.

5. In 7 days 7,168 people went to a theater. The same number of people went each day. How many people went each day?

_____ people went each day.

6. At the steel mill there are 21,764 employees. There are the same number of employees on each of the 2 shifts. How many employees are on each shift?

There are _____ employees on each shift.

1.

2.

3.

4.

5.

6.

Check your answers. Record your score.

Perfect score: 8

My score: _____

Measurement

Complete the following.

*a**b*

1. 4 lb. = _____ oz.

3 T. = _____ lb.

2. 5 min. = _____ sec.

3 hr. = _____ min.

3. 2 da. = _____ hr.

6 ft. = _____ in.

4. 3 yd. = _____ in.

5 yd. = _____ ft.

5. 8 ft. = _____ in.

12 ft. = _____ yd.

6. 4 c. = _____ pt.

6 pt. = _____ c.

7. 8 pt. = _____ qt.

5 qt. = _____ pt.

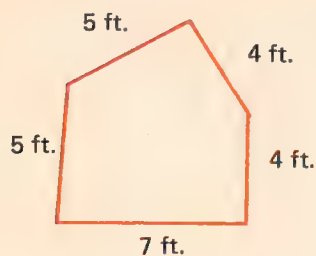
8. 12 qt. = _____ gal.

18 gal. = _____ qt.

Find the perimeter of each figure below.

*a**b**c*

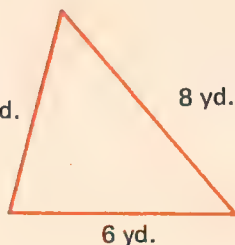
9.



_____ feet

5 yd.

8 yd.



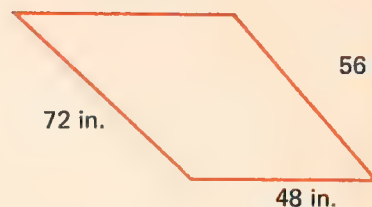
_____ yards

65 in.

56 in.

72 in.

48 in.



_____ inches

10.

15 in.

9 in.

9 in.

15 in.

_____ inches

8 ft.

8 ft.

8 ft.

8 ft.

_____ feet

5 yd.

9 yd.

9 yd.

5 yd.

_____ yards

Check your answers. Record your score.

Perfect score: 22

My score: _____

Problems

Solve each problem.

1. A shipment of merchandise weighs 8 tons. What is the weight of the shipment in pounds?

The weight is _____ pounds.

2. Jerry's baby brother weighed 6 pounds at birth. What was the baby's weight in ounces?

The baby's weight was _____ ounces.

3. It rained for 2 days without stopping. How many hours did it rain without stopping?

It rained _____ hours without stopping.

4. It took Richard 5 minutes to run around the park. How many seconds did it take him to run around the park?

It took him _____ seconds.

5. Malcolm has a rope which is 3 yards long. What is the length of the rope in feet?

The rope is _____ feet long.

6. In problem 5, what is the length of the rope in inches?

The rope is _____ inches long.

7. A football field is 120 yards long. What is the length of the field in feet?

The field is _____ feet long.

8. The Walsh family drank 24 quarts of milk last week. How many gallons of milk was this?

It was _____ gallons of milk.

9. At the picnic there were 32 quarts of lemonade served. How many pints of lemonade was this?

It was _____ pints of lemonade.

1.

2.

3.

4.

5.

6.

7.

8.

9.

Check your answers. Record your score.

Perfect score: 9

My score: _____

Problems

Solve each problem.

1. The Doughnut Shop sold 1,427 dozen doughnuts yesterday. There are 12 doughnuts in a dozen. How many doughnuts did they sell?

They sold _____ doughnuts.

2. The weights of 5 linemen on the Bears football team are as follows: 235 pounds; 255 pounds; 248 pounds; 262 pounds; and 250 pounds. What is the total weight of these players?

The total weight is _____ pounds.

3. Each bundle of shingles will cover 9 square feet of roof. How many bundles of shingles would be needed to cover 756 square feet of roof?

_____ bundles of shingles would be needed.

4. The Empire State Building is 1,250 feet high and the Chrysler Building is 1,046 feet high. How much taller is the Empire State Building than the Chrysler Building?

The Empire State Building is _____ feet taller.

5. It is 36 feet along both the front and back of a house and 28 feet along each of the other two sides. What is the distance around the house?

It is _____ feet around the house.

6. There are 738 pupils at Alice's school. There is the same number in each of the 6 grades at the school. How many pupils are in each grade?

There are _____ pupils in each grade.

7. In a certain city there are 8,985 policemen and 4,596 firemen. How many more policemen than firemen are there?

There are _____ more policemen.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7 My score: _____

TEST—Review

Complete the following as indicated.

a

$$\begin{array}{r} 1. \quad 43\text{¢} \\ + 37\text{¢} \\ \hline \end{array}$$

b

$$\begin{array}{r} \$3.49 \\ + 5.24 \\ \hline \end{array}$$

c

$$\begin{array}{r} 383 \\ 125 \\ + 678 \\ \hline \end{array}$$

d

$$\begin{array}{r} 6241 \\ 1253 \\ + 3457 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 85\text{¢} \\ - 38\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} \$7.26 \\ - 5.85 \\ \hline \end{array}$$

$$\begin{array}{r} 3546 \\ - 867 \\ \hline \end{array}$$

$$\begin{array}{r} 7223 \\ - 4957 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 47\text{¢} \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \$3.24 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4125 \\ \times 72 \\ \hline \end{array}$$

$$\begin{array}{r} 536 \\ \times 367 \\ \hline \end{array}$$

$$4. \quad 8 \overline{)67}$$

$$4 \overline{)864}$$

$$7 \overline{)1253}$$

$$9 \overline{)25735}$$

Complete the following.

a

$$5. \quad 3 \text{ min.} = \underline{\hspace{2cm}} \text{ sec.}$$

b

$$4 \text{ lb.} = \underline{\hspace{2cm}} \text{ oz.}$$

$$6. \quad 3 \text{ yd.} = \underline{\hspace{2cm}} \text{ in.}$$

$$12 \text{ ft.} = \underline{\hspace{2cm}} \text{ yd.}$$

$$7. \quad 4 \text{ qt.} = \underline{\hspace{2cm}} \text{ pt.}$$

$$10 \text{ pt.} = \underline{\hspace{2cm}} \text{ qt.}$$

Write a Roman numeral for each of the following.

a *b* *c*

$$8. \quad 27 = \underline{\hspace{2cm}} \quad 64 = \underline{\hspace{2cm}} \quad 349 = \underline{\hspace{2cm}}$$

Check your answers. Record your score.

Perfect score: 25

My score:

Answers for SPECTRUM MATHEMATICS (Orange Book)

Page 1

1. 4; 3; 7 2. 4; 5; 9 3. 2; 3; 5

Page 2

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>
1.	8	7	9	9	7	8	9	10
2.	8	9	5	6	7	8	9	8
3.	5	7	4	9	9	5	6	7
4.	16	13	13	11	13	10	13	17
5.	14	14	11	11	10	12	12	13
6.	15	13	14	12	17	11	12	11
7.	10	10	12	12	11	12	16	18

Page 3

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>
1.	1	2	3	1	8	4	1	6
2.	2	1	7	6	4	0	3	3
3.	7	8	9	7	5	1	9	2
4.	6	3	8	6	8	8	7	4
5.	7	9	8	6	3	8	4	4
6.	5	9	7	6	9	7	9	7
7.	4	6	2	9	5	5	8	6

Page 4

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	49	78	69	29	47	78
2.	47	57	49	37	29	48
3.	80	80	90	70	90	70
4.	75	64	27	45	66	85
5.	98	36	64	92	83	85
6.	21	51	42	21	42	72
7.	40	20	20	40	30	50
8.	43	3	34	55	50	44
9.	8	66	78	6	79	15

Page 5

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	27	32	43	19	27	58
2.	23	44	66	79	69	99
3.	69	18	19	29	39	39
4.	48	69	37	47	48	76
5.	11	31	54	21	42	91
6.	92	43	13	62	32	50
7.	85	24	42	73	86	63
8.	78	66	37	83	54	75

Page 6

1. 27; 6; 21 3. 23; 5; 28 5. 12
2. 8; 11; 19 4. 12; 6; 18

Page 7

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	6	60	7	70	9	90
2.	9	90	7	70	9	90
3.	90	80	80	80	80	60
4.	58	89	67	87	68	86
5.	36	97	77	98	95	84
6.	94	86	97	98	85	95
7.	99	89	88	89	89	98

Page 8

1. 14; 15; 29 3. 31; 28; 59 5. 38
2. 42; 46; 88 4. 43; 25; 68

Page 9

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	2	20	3	30	3	30
2.	5	50	2	20	4	40
3.	10	20	40	50	20	40
4.	11	10	28	12	10	12
5.	29	33	32	23	4	35
6.	2	43	40	55	15	46
7.	65	64	64	71	27	28

Page 10

1. 38; 21; 17 3. 38; 32; 6 5. 13
2. 69; 53; 16 4. 28; 21; 7

Page 11

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	29	29	58	59	49	29
2.	36	83	34	97	35	58
3.	60	70	80	60	50	80
4.	95	67	83	78	96	49
5.	96	88	98	87	68	99
6.	62	28	41	57	73	
7.	40	10	50	50	20	
8.	10	43	48	26	7	
9.	34	65	53	21	47	

Page 12

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	8	12	20	15	24	17
2.	35	51	74	70	55	56
3.	92	106	116	251	337	413
4.	113	212	186	196	181	183
5.	19	74	59	36	88	67
6.	15	39	26	59	47	58
7.	62	742	341	892	597	781
8.	288	455	549	785	699	379
9.	509	819	590	892	105	387

Page 13

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>
1.	13	12	14	18	17	12	17	14
2.	10	13	13	11	15	15	13	13
3.	13	16	16	14	11	11	11	11
4.	13	16	16	13	17	18	16	18
5.	18	17	15	17	16	15	15	10

Page 14

1. 2; 3; 6; 11 3. 3; 4; 2; 7; 16
2. 5; 4; 6; 15 4. 11

Page 15

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	26	22	41	31	40	61
2.	31	71	65	42	42	73
3.	60	93	81	92	84	92
4.	71	41	41	50	43	72
5.	83	86	91	91	73	91
6.	73	57	74	77	43	46
7.	83	91	81	65	87	80

Page 16

1. 16; 9; 25 3. 42
2. 8; 15; 23 4. 36

Page 17

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	125	157	129	129	116	117
2.	128	138	119	176	159	139
3.	101	131	160	150	132	131
4.	188	206	178	248	139	149
5.	180	222	225	218	144	164
6.	100	203	220	201	265	135

Page 18

1.	61; 54; 115	3.	171	5.	158
2.	76; 83; 159	4.	174	6.	168

Page 19

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	18	56	63	37	77	68
2.	6	49	56	15	27	44
3.	27	59	18	39	9	16
4.	126	609	146	816	119	609
5.	517	147	408	106	736	108
6.	509	659	869	739	709	309
7.	309	718	618	309	529	845

Page 20

1.	32; 19; 13	3.	42; 27; 15	5.	108
2.	23; 17; 6	4.	216		

Page 21

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	93	51	51	87	71	55
2.	331	390	771	391	691	534
3.	887	287	529	578	279	785
4.	99	809	288	669	188	788
5.	578	78	601	239	663	773
6.	387	268	89	248	759	268
7.	258	377	158	89	175	182

Page 22

1.	125; 64; 61	3.	365; 95; 270	5.	177
2.	117; 86; 31	4.	32		

Page 23

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	67	98	88	73	80	94
2.	108	129	118	103	151	193
3.	61	34	29	67	39	25
4.	62	63	91	18	88	89

Page 24

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	21	15	23	16	18	14
2.	44	56	71	56	75	56
3.	71	91	117	120	384	528
4.	82	78	128	159	215	872
5.	29	39	55	38	46	67
6.	18	57	49	33	43	18
7.	118	239	745	619	217	628
8.	152	632	173	553	372	272
9.	269	449	778	277	659	397

Page 25

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	43	55	67	53	72	90
2.	92	126	125	241	343	443
3.	57	29	19	55	14	19
4.	71	42	391	57	288	217
5.	218					

Page 26

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	835	677	579	741	372	787
2.	618	655	818	1356	1298	1396

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
3.	510	412	8213	4591	5929	9186
4.	65	64	857	1886	6733	8508
5.	76	878	7868	8887	7838	9928
6.	423	329	794	149	5115	4423
7.	4219	5452	5851	7139	7715	5271
8.	3225	4249	2381	2755	4548	7899
9.	66203	32415	74091	78232	67421	75708

Page 27

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	757	861	805	1139	521	816
2.	1582	1192	1219	1427	1413	1444
3.	885	640	1593	1209	1662	1650
4.	714	628	285	674	474	
5.	962	433	651	809	825	
6.	685	771	685	259	855	

Page 28

1.	add; 860 lbs.	4.	subtract; 1590 lbs.
2.	subtract; 615 lbs.	5.	subtract; 908 mi.
3.	add; 949 lbs.		

Page 29

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	4677	7863	5749	7087	13648
2.	7803	9683	15764	7046	15868
3.	16055	7217	13542	8152	18141
4.	2239	3081	5821	4018	5588
5.	2008	5471	4922	3286	3084
6.	9459	9181	8811	485	8779

Page 30

1.	1493; 198; 1295	3.	1387	5.	3166
2.	7376; 5924; 13300	4.	3342		

Page 31

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	95	84	178	79	146
2.	167	762	578	1875	858
3.	7833	7495	15586	7326	16866
4.	13196	8893	22821	13756	14974
5.	9792	9666	9377	17679	8298
6.	7860	9644	16782	18213	18312

Page 32

1.	324; 361; 342; 1027	3.	9397	5.	9568
2.	367	4.	8179		

Page 33

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	853	562	615	1146	685
2.	1674	2756	6136	4910	5221
3.	7463	8958	6073	12367	7511
4.	80	592	824	15958	12067
5.	227	1587	19289	20724	19069
6.	253	518	183	217	297
7.	1109	3192	3414	3818	4046
8.	3316	3271	1613	4811	3639
9.	40727	27116	36362	51855	62845

Page 34

1.	3850; 2425; 6275	3.	1788	5.	1318
2.	1029; 983; 46	4.	17421		

Page 35

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	667	871	837	2148	1807
2.	4483	6558	6366	11848	5613
3.	73	578	8374	1331	13372

ANSWERS FOR SPECTRUM MATHEMATICS (Orange Book)

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
4.	218	472	831	1694
5.	4181	4845	7371	57555
6.	1472			
7.	1195			

Page 36

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	28	54	40	80	60	80
2.	46	84	96	55	63	44
3.	66	42	86	69	88	68
4.	85	81	90	92	84	96
5.	459	248	568	469	288	415
6.	800	600	800	484	248	936
7.	945	496	975	968	688	849
8.	2800	1236	3696	3591	2472	880
9.	5810	4386	966	5384	2345	3476

Page 37

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>
1.	6	56	72	0	49	42	7	24
2.	81	12	42	9	8	48	64	21
3.	0	35	0	18	56	54	0	28
4.	30	27	28	18	36	32	48	18
5.	63	35	40	40	24	21	45	12
6.	14	32	54	63	36	30	72	16
7.	24	45	24	16	27	14	36	18

Page 38

1.	5; 8; 40	3. 4; 5; 20	5. 30
2.	2; 8; 16	4. 25	

Page 39

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	9	90	8	80	6	60
2.	6	90	96	2	80	82
3.	99	99	36	28	93	39
4.	64	69	84	84	26	66
5.	24	55	66	33	42	66
6.	44	88	44	88	22	26
7.	46	88	48	63	62	77

Page 40

1.	12; 2; 24	3. 48
2.	24; 2; 48	4. 36

Page 41

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	56	92	75	96	95	74
2.	84	91	87	96	92	84
3.	159	305	148	486	497	248
4.	368	146	455	427	216	488
5.	657	170	354	336	201	456
6.	432	304	747	490	378	378
7.	415	444	873	464	518	196

Page 42

1.	12; 6; 72	3. 24; 6; 144	5. 248
2.	14; 6; 84	4. 576	

Page 43

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	6	600	35	3500	48	4800
2.	72	800	872	84	2800	2884
3.	963	846	848	698	981	
4.	728	816	955	3648	5688	
5.	936	952	4842	2891	3368	
6.	5922	4302	4746	5816	2970	

Page 44

1.	915	3. 1052	5. 1302	7. 768
2.	875	4. 1824	6. 825	

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	77	64	84	96	48	69
2.	91	75	94	78	96	75
3.	216	368	426	248	405	279
4.	264	336	402	648	399	245

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5.	428	693	840	896	690
6.	585	917	788	968	2196
7.	3648	3050	942	940	959
8.	3248	4291	1581	6039	3440
9.	6587	3864	6075	5832	3052

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1.	360	3. 450	5. 1080	7. 2540
2.	245	4. 90	6. 625	8. 2120

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2.	96	86	84	69	66	48
3.	84	76	84	80	92	96
4.	420	720	280	426	368	486
5.	576	567	342	273	245	260

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
6.	864	448	864	565	721
7.	917	846	3555	2448	2796
8.	959	992	3591	2754	1668
9.	4689	7528	2268	2195	5142

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	640	690	770	2560	3920	2430
2.	903	736	748	897	1008	1184
3.	2257	2173	3116	4144	3196	4104

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
4.	8442	10240	11856	8908	12267
5.	38064	11289	35342	24282	56712

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1.	39	390	86	860	640	690
2.	68	340	408	96	640	736
3.	882	1056	869	961	297	384
4.	759	946	616	736	294	1034

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1.	44; 12; 528	3. 935
2.	66; 11; 726	4. 504

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2.	1083	1147	1152	989	1218	663
3.	7553	2666	2288	2016	1088	2132
4.	3724	9118	5355	3055	6474	7912

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1.	792	3. 675	5. 432	7. 2200
2.	660	4. 432	6. 572	8. 336

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1.	480	960	840	1120	4500	5880
2.	882	736	924	299	759	528
3.	1075	1479	850	896	1008	1248
4.	3834	3096	2016	3444	4233	3128
5.	4964	2436	4214	3478	2976	1652

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1.	825	3. 616	5. 1584	7. 224
2.	2400	4. 720	6. 1050	

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2.	528	2640	3168	969	19380	20349

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
3.	4876	5076	5929	11877	9888
4.	26568	21266	27027	71904	39508

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1.	3456	3. 3000	5. 4620	7. 2025
2.	2700	4. 9425	6. 6900	8. 2475

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2.	1173	5655	3822	5518	1833	2808

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
3.	17328	34020	15696	32528	49868
4.	24948	4004	39196	33375	37492
5.	3537	77771	15170	23040	6897

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1.	600	3. 192	5. 1200	7. 490
2.	1500	4. 4320	6. 5248	8. 1903

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2.	3213	3024	1449	6408	2184
3.	6594	3936	6946	7905	24887
4.	8424	28044	11544	23433	12267
5.	38874	41088	30345	26313	61236

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4.	96300	226800	99840	89424
5.	385776	327096	594864	383250

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2.	21	21000	40	40000	72	72000

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
3.	6824	8072	5355	8193	32084
4.	7343	40856	9684	8755	48609
5.	34026	48663	33306	35170	54016

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1.	45000	3. 34000	5. 5235	7. 45675
2.	17500	4. 4268	6. 8136	

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1.	8000	80000	15000	150000
2.	80000	90000	350000	540000

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3.	64992	68904	72080	57850
4.	120736	166288	311112	280116
5.	619974	490230	775200	360122

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2.	7842	32688	87309	56488
3.	7835	28441	28632	52554
4.	52923	337463	354322	280116
5.	101156	85877	112896	55292
6.	323646	725790	583488	617826

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2.	102024	68526	94284	459774
3.	166608	198008	83916	117594
4.	487153	466446	176175	332898
5.	455300	459608	374250	388994

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2.	23506	29694	87507	118598
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1.	32°	69°	4°	58°	
2.	79¢	\$1.07	85¢	\$12.58	\$88.33
3.	52¢	\$.59	\$3.62	\$ 3.78	\$ 8.95
4.	96¢	\$3.22	\$4.86	\$10.53	\$139.60

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6.	91	120	210
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2.	75°	63°	104°	9°
3.	67°	103°	78°	47°

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2.	\$.10	\$.50	4¢	\$1.79
3.	25¢	\$.75	29¢	347¢
4.	\$.50	\$.10	298¢	\$1.35
5.	85¢	\$.95	375¢	649¢
6.	\$1.00	\$.05	149¢	\$2.19
7.	408¢	25		
8.	\$7.63	3		
9.	309¢	5		
10.	\$6.19	9		
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2.	56¢	29¢	\$.74	\$ 1.78	\$ 28.79
3.	105¢	113¢	\$1.25	\$14.71	\$ 44.41
4.	77¢	53¢	\$2.07	\$ 3.38	\$ 30.89
5.	155¢	166¢	\$2.37	\$10.68	\$204.24
6.	159¢	58¢	\$1.22	\$ 4.52	\$ 32.88

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	84¢	65¢	\$.78	\$ 6.88	\$ 48.69
2.	186¢	364¢	\$ 3.48	\$ 9.88	\$ 77.37
3.	384¢	989¢	\$ 17.68	\$ 161.64	\$1050.00
4.	966¢	1088¢	\$126.48	\$1359.93	\$3342.24

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1.	72¢	3. 21¢	5. \$118.75	7. \$79.56
2.	92¢	4. \$9.52	6. \$2.80	8. \$2.25

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2.	8	5	30	
3.	40	9	60	
4.	90	7	200	
5.		24	29	35
6.	41	59	64	99
7.	116	160	200	245
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1.	\$14.12	3. 24	5. 21	7. \$39.93
2.	\$24.75	4. \$35.80	6. \$637.44	8. \$2.77

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1.	17°	34°	73°	49°	
2.	89¢	\$.64	\$72.52	31¢	\$ 4.94
3.	87¢	\$2.76	\$11.12	\$56.28	\$77.76
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1.	1	4	4	2	7	6.	9	3	7	1	5
2.	0	9	2	8	7	7.	7	5	3	9	1
3.	4	2	8	1	5	8.	2	8	0	4	6
4.	7	3	6	9	0	9.	6	1	8	4	2
5.	8	6	0	4	2	10.	9	7	3	0	5

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2.	7	7	6	5	9	3
3.	8	4	6	4	5	7
4.	8	1	4	8	0	2
5.	8	0	4	9	3	9
6.	6	9	8	0	5	9
7.	4	3	6	1	2	2

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2.	7	7	6.	7	7	6	0	3
3.	8	8	7.	3	1	6	8	4
4.	9	9	8.	4	8	0	2	9

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2.	7	7	6.	5	8	0	3	6
3.	8	8	7.	9	4	2	1	5
4.	9	9	8.	7	0	8	6	9

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2.	4	4.6	6.3	8.9

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>		<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
5.	9	8	9	2	7	9.	1	9	3	1	2
6.	3	5	4	4	5	10.	0	4	2	0	6
7.	8	3	0	6	5	11.	8	1	5	0	1
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1.	2	3	0	8	9	6.	5	4	5	4	6
2.	2	1	1	9	9	7.	7	7	2	1	3
3.	6	8	6	2	1	8.	3	4	8	7	9
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	<i>a</i>	<i>b</i>		
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2.	1533	109		
3.	6	9		
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4.	135	27	984	123
5.	4368	728	2081	8324
6.	1246	11214	9187	27561

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1.	16	3. 14	5. 2865	7. 2024
2.	162	4. 360	6. 2140	

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	<i>a</i>	<i>b</i>	<i>c</i>
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2.	2468	24075	7542
3.	89208	87910	94801

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1.	1760	3. 625	5. 8288	7. \$19915
2.	1155	4. 7200	6. 25550	8. 7710

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2.	174	1121	1564
3.	5709	2051	49289

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1.	450	3. 900	5. 3180	7. 3632
2.	420	4. 937	6. 7419	

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1.	78 r1	135 r4	224 r1
2.	449 r2	1309 r1	1351 r6
3.	1371 r6	12068 r3	16309 r1

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1.	15; 6	3. 125; 6	5. 1737; 3
2.	21; 3	4. 168; 4	

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2.	53	55 r4	119 r5
3.	977 r1	754	1350 r3
4.	2477 r6	8096	12094 r2

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1.	12; 3	3. 36; 4	5. 689	7. 14928
2.	63	4. 440	6. 1250	

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2.	72	6		
3.	9	1291		
4.	150	265		
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5.	936	4268	41280	
6.	4452	40524	98728	
7.	93	306 r4	2030 r5	
8.	119 r1	1119	12053	

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1.	48	6000	5. 72	12
2.	180	120	6. 16	16
3.	96	2	7. 2	4
4.	9	144	8. 4	5
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9.	12	18	16	
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2.	4000	64	8. 360	8000
3.	112	10000	9. 120	600
4.	120	480	10. 240	1440
5.	48	300	11. 32000	168
6.	300	72	12. 240	144

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1.	80	3. 180	5. 168	7. 16000	9. 120
2.	240	4. 60000	6. 64	8. 120	

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2.	72	180	8. 45	25
3.	60	84	9. 20	252
4.	36	216	10. 108	100
5.	5	9	11. 96	324
6.	21	27	12. 30	300

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1.	72	3. 450	5. 1760	7. 96	9. 72
2.	30	4. 72	6. 180	8. 108	

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1.	3	24	7. 40	8
2.	2	32	8. 6	9
3.	2	12	9. 20	16
4.	16	6	10. 7	48
5.	20	9	11. 32	56
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1.	12	3. 32	5. 40	7. 6
2.	4	4. 94	6. 84	8. 3

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1.	24	24	21	3. 12	20	22
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1.	360	3. 370	5. 460	7. 40
2.	24	4. 18	6. 96	

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2.	30	32	234	4. 382	128	36

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1.	80	3. 140	5. 14	7. 1040
2.	80	4. 104	6. 112	

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1.	80	72	6. 96	15
2.	360	4	7. 3	20
3.	3	4	8. 3	180
4.	108	8000	9. 30	49
5.	18	8	10. 28	342

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	75	71¢	\$5.94	1114	10674
2.	38	26¢	\$1.96	378	3704
3.	304	81¢	\$6.45	86751	113408
4.	8 r3	135	836 r1	1208	9230 r1

	<i>a</i>	<i>b</i>
5.	48	120
6.	36	3
7.	12	3

	<i>b</i>	<i>c</i>
8.	49	217
9.	XCHH	CCXLVIII

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
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2.	21	33	42	29	45	59
3.	49	78	70	61	136	178
4.	35	64	24	35	36	29
5.	473	573	634	1043	1846	6878
6.	121	194	115	437	582	359
7.	78	96	165	778	740	1687
8.	4513	4627	5190	3851	958	1269
9.	6687	13867	7207	7266	10713	22396

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1.	1896	3. 467	5. 2258	7. 2143
2.	88	4. 557	6. 2049	

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
1.	80	350	69	76	249
2.	600	1800	848	684	655
3.	1569	3024	952	1506	6102
4.	9000	42000	4496	21126	58864
5.	62480	50556	231336	310638	741174
6.	69300	28408	110808	372408	798260

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1.	144	3. 3360	5. 13815	7. 21072
2.	144	4. 4375	6. 768	8. 16128

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1.	59	22	51	73

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
2.	89¢	141¢	\$1.38	\$ 3.74	\$ 19.05
3.	36¢	38¢	\$.48	\$ 4.42	\$4.48
4.	96¢	225¢	\$4.75	\$30.94	\$152.15

	<i>a</i>	<i>b</i>	<i>c</i>
5.		44	67
6.	96	121	205
7.		XLVI	LXIV
8.	XCV	CXIX	CCLIII

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1.	29	3. \$50.97	5. 75	7. \$8.72
2.	\$83.86	4. \$35.88	6. 98¢	8. \$4.74

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1.	9	9 r5	6 r2	29
2.	17	72 r4	116	242 r1
3.	497	748 r2	3687	1389 r3
4.	2807	7865 r1	12071	24213 r1

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1.	6; 4	3. 22; 2	5. 1024
2.	13	4. 304	6. 10882

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	<i>a</i>	<i>b</i>	<i>c</i>
1.	64	6000	
2.	300	180	
3.	48	72	
4.	108	15	
5.	96	4	
6.	2	12	
7.	4	10	
8.	3	72	
9.	25	19	241
10.	48	32	28

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1.	16000	3. 48	5. 9	7. 360	9. 64
2.	96	4. 300	6. 108	8. 6	

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1.	17124	3. 84	5. 128	7. 4389
2.	1250	4. 204	6. 123	

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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1.	80¢	\$ 8.73	1186	10951
2.	47¢	\$ 1.41	2679	2266
3.	94¢	\$25.92	297000	196712
4.	8 r3	216	179	2859 r4

	<i>a</i>	<i>b</i>	<i>c</i>
5.	180	64	
6.	108	4	
7.	8	5	
8.	XXVII	LXIV	CCCXLIX

The sequence of the six books in the SPECTRUM MATHEMATICS SERIES is Red, Orange, Yellow, Green, Blue, and Purple.

For each unit there is a PRE-TEST, instructional material, written exercises, verbal problems, and a TEST. The score of each TEST can be recorded on the *Record of Test Scores*.

RECORD OF TEST SCORES

Rank	Page													
	11	25	35	47	59	71	81	91	105	115	127	139	152	
Excellent	50	25	25	50	25	20	25	50	25	20	20	20	25	
	45			45				45						
Good	40	20	20	40	20	15	20	40	20				20	
	35			35				35		15	15	15		
	30	15	15	30	15		15	30	15				15	
Fair	25			25		10		25		10	10	10		
	20	10	10	20	10		10	20	10				10	
	15			15		5		15		5	5	5		
	10	5	5	10	5		5	10	5				5	
Poor	5			5				5						
	0	0	0	0	0	0	0	0	0	0	0	0	0	

To record the score you receive on a TEST:

- (1) find the vertical scale below the page number of that TEST,
- (2) on that vertical scale, draw a ● at the mark which represents your score. For example, if your score for the TEST on page 11 is "My score: 35," draw a ● at the 35-mark on the first vertical scale. A score of 35 would show that your rank on that test is "Good." You can check your progress from one test to the next by connecting the dots with a line segment.



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